1 Focus - centre to violet, shorten the focus (increase micrometer reading)

me Temp.....

us.....

me Temp.....

Transparency Conditions.....

ur Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

David Dunlap Observatory
74" Logbook
Vol 23
Plate Nos 20064 - 21265
June 1953 - May 1954

5

Date Thurs.-Fri. June 4-5, 1953 **Observer** WC **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20064	HD 126009	$14^h\ 17.^m9$	$+29^\circ\ 5'1$	I-12½	E-1030-O	0.008	19.°8C	$22^h\ 49^m$	$23^h 47^m$	2
20064-F	-	Focal test		O.T.B.						

Dome Temp. 63°F.
Focus 12.922
Dome Temp. 61°F.

Transparency Conditions Cloudy first part of night. Cleared & kept so south about 22h15m. Sky steadily thicker after 23h05m and nearly overcast by 23h35m. Almost continuous lightning in all directions, but no thunder (Apparently heavy in southwest).

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23h47m	2h02m W	+29° 35'	0!!	7.94	M3	2s 2s 1s	Plot 2 AG1+25 program. Ground fog starting to form 23h10m. Comp. wk. Effective mid-exposure 23h05m.	Poor
					5/4		Outside temperature falling rapidly.	All right
							2 P.H. + 8	
							Heat for mirror apparently out of order.	

	Mc	Se	H Tw	S Tw	Sw	S	M.E.
June 3	-20s.5	-16s.8	+32s.0	+.3m	-25s	-13s.7	
3	-20s.4	-17s.6	-0s.2	+.2m	-26s	-14s.8	-3s.6

7

Date Sunday/Monday June 7/8 1953 **Observer** {Mellon / Meston / Swope} **Julian Day** ....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20065	HD 135485	$15^h 10.2^m$	$-14^\circ 19'$	I-12½	E-1932-0	0.008	18.2C.	$21^h 28^m$	$22^h 30^m$	3
20066	HD ~~107 784~~	11 58.9	$+25^\circ 30'$	"	"	"	18.1	22 39	23 59	1
20067	HD126598	14 21.4	+26 43	"	"	"	18.0	00 05	01 45	1
20068	HD 191069	2002.9	-1600	"	"	.016	18.0	0200	0326	2
	Focus	Test		O.T.B.						

Dome Temp. 5
Focus 1629
Dome Temp.

Hour Angle Ind

00h 14m E
4 45W
0409W
0008W

Dome Temp. 57°F.
Focus 12,922
Dome Temp.

Transparency Conditions

Sat June 6. About 75 visitors. Showed slides + 74-inch. Cloudy.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22h 30m	3	00h 04m E	−14° 34′	0	(7.9)	cB5	2s-2s-2	Mather's high-velocity. ~~Hydrogen lines winged, perhaps lower luminosity.~~ slight Flexure	good
23 59	1	4 45W	+25 13	0	8.2	G0	2-2-2	Set 2. AG+25°. ~~Metallic lines, dp, combination~~ G0	good
01 45	1	0409W	+26 28	0	8.5	K5	2-2-2	Set 8. AG+25°	good
0326	2	0008W	−15 5.1	0	8.78	G5V	1-1-1	Set 5. N. Roman. (Set 3: Forgot to widen slit.)	fair
							H/3	" 9.	all right

	HC	SC	NTO	STO	SO	S	NE
June 8	−21.s4	−27.s7	−20.s2	−18.m	−32.s	−25.s8	−11.s3

Q

Date Tues (Wed) 9-10 June 1953 Observer S-Mo-L Julian Day

These times were read from the watch. To get correct times subtract 25 seconds

Plate No.	Object	R.A. 1900-50	Declination 1900-50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Intl
20067 ~~69~~	N.G.C 5272	13 39.9	+28°38	Newt.	E-103A0			21 22	21 25	1	0.39W
70								+3 25			
20064 ~~64~~	4147	12 07.6	+18 49					21 30	21 40	2	2.28W
71								+20			
20065 ~~65~~	5634	14 27.0	-05 45					21 45	21 59		0.17W
72								20			
20066 ~~66~~	5904	15 16.0	+2 16					22 03	22 05		0.16E
73								30 8"			
20067 ~~67~~	4147	12 07.6	+18 49					22 12	22 20		3.08W
74								+25 14			
20068 ~~68~~	5634	14 27.0	-5 45					22 28	22 42		1.19W
75								2			0.56E
20069 ~~69~~	6205	16 39.9	+36 33					22 48	22 50		4.08
76								+14	14		
20070 ~~70~~	6229	16 95.6	+47 37					23 00	23 14		0.37E
77								8			
20071 ~~71~~	6171	16 29.7	-12 57					23 23	23 31		0.19E
78								-20 14			
20072 ~~72~~	6426	17 42.4	+3 12					23 42	23 56		0.52E
79								-25 10			
20073 ~~73~~	5897	15 14.6	-20 49					00 04	00 19	1	1.54W
80								-18			
20074 ~~74~~	6356	17 20.7	-17 46					00 22	00 34		1.07W
	K.A. 133	17 15.4	-15 02					±00			
								00 37	00 49		0.28W
81								+14 24			
20075 ~~75~~	IC 1276	18 07.5	-07 15					01 07	01 31		0.19W
82								+23 24			
20076 ~~76~~	NGC 6342	17 18.2	-19 32					01 47	02 11		1.98W
83								-19 10			
20077 ~~77~~	6712	18 50.3	-8 47					02 15	02 25		0.29W

Dome Temp. +60°F

Focus

Dome Temp.

Mon-Tues June 8-9

Newtonian. Thunderstorms,

no area clear >5 min. L+D#1 put Cass mirror in aluminizer

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 39W							
2 28W							
0 27W							
0 16E							
3 08W						refocused on β Librae.	
1 09W							
0 56E							
~~1 05~~							
0 37E							
0 09E						refocused on κ Ophiuchi	
0 52E						L guiding	
1 54W							
0 07W							
0 28W							
0 19W						refocused on η Serpentis	
1 48W							
0 29W							

(Continued)

Date Tues./Wed., 9/10 June 53 **Observer** S - Mo - L **Julian Day** 2434538

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Int
84								+25 3			
20078	NGC. 6838	19 51·3	+18 38	Newt.	E103-a-O			02 28	02 31		00E
85								00 24			
20079	6539	18 02·1	-7 35					02 36	03 00		1°W
86								-20 8			
20080	6712	18 50·3	-8 47					03 05	03 13	2	17W
87								+05 2			
20081	6838	19 51·3	+18 38					03 16	03 18	1	23W
88								-17			
20082	7089	21 30·9	-01 03			20 sec		03 23		2	1°E

Dome Temp.

Focus

Dome Temp. +54°

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 25 E							
1 54 W							
1 17 W						This plate was numbered 20081 by mistake - H.S.H.	
0 23 W							
1 12 E							

June 10 — MC −22.2, SC −18.3, MTW −21.8, STW 1.4 m, SW −5 s, SH −12.2

Fine night except for few early clouds. Seeing only fair.

13

Date Wed-Thurs 10/11 June / 33 Observer S-Bk-Hr We Julian Day 2432539

Dome Temp
Focus
Dome Temp

Plate No.	Object	R.A. 1900.0	Declination 1900.0	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
89 200~~85~~	NGC 5272	13 39.9	+28 38	Newt.	E1032O			21 22	21 25	1	
90 200~~84~~	4147	12 07.6	+18 49					21 30	21 40	2	
91 200~~85~~	5634	14 27.0	-05 45					21 47 00	22 01	1	
92 200~~86~~	5904	15 16.0	+02 16					22 05	22 07	2	
93 200~~87~~	4147	12 07.6	+18 49					22 14	22 24	1	
94 200~~88~~	5634	14 27.0	-05 35					22 36	22 50	2	
95 200~~89~~	6205	16 39.9	+36 32					22 56	22 58	1	
96 200~~90~~	6229	16 45.6	+47 37					23 03	23 17	2	
97 200~~91~~	6366	17 25.1	-05 02					23 26	23 36	1	
98 200~~92~~	5897	15 14.6	-20 49					23 44	23 54	2	
99 200~~93~~	6426	17 42.4	+03 12					00 05	00 19	1	
100 200~~94~~	6426	17 42.7	-17 46					00 22	00 35	2	
101 200~~95~~	IC 1276	18 07.5	-07 15					00 48	01 12	1	
102 200~~96~~	HDS 2342	17 15.2	-19 32					01 17	01 41	2	
103 200~~97~~	6712	19 50.3	-05 47					01 45	01 53	1	

Dome Temp. +62°F

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 43 W						Focused on α Boo	
2 30 W							
0 32 W							
0 10 E							
3 15 W						pointing poor	
1 22 W						Refocused on α Boo	
1 16 W							
0 30 E							
0 52 E							
1 32 W							
0 25 E							
0 13 W							
0 04 W						Refocused on Spica	
1 21 W						Some haze	
0 02 W							

15

Date June 10/11 Cont'd. **Observer** S-BK-We-Hr **Julian Day** 2434539

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
104	NGC 6838	19 51 3	+18 32					01 37 24	01 [illegible]	2	
	K 1. 89	21 10 4	+15 22					02 02 48	02 04 49		1 E
105	NGC 7022	21 01 0	+62 00					02 28	02 48	1	1 E
106	- " -							02 49	[illegible]	2	105 E.
107	- " -							02 51 2	02 58 12	1	102 E.
108	- " -							02 59 15	02 59 45	1	100 E.

Dome Temp.
Focus
Dome Temp.

Dome Temp. +54° F

Transparency Conditions

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 05 W							
2 05 E						02 05 Telescope Thermal seems to be fairly stable and pretty good	
1 05 E							
1 02 E							
1 00 E							

These times were read from the watch. To get correct times subtract 27 seconds

Date Thurs. June 11/12/13 **Observer** S-Mo-Hc **Julian Day** 2434540

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
201 09 ~~03~~	NGC 5272	13 39.9	+28 38	Newt.	F/3.9			+15 21	21 25		(0 48W)
201 10 ~~04~~	5904	15 16.0	+2 16					-28 21 35	3 8 21 3(5)		0 37E
201 11 ~~05~~	4147	12 7.6	+18 49					-20 21 46	12 21 52		1 52W
201 12 ~~06~~	5634	14 27.0	−5°45					+30 22 02	14 22 16	1	1 52W
201 13 ~~07~~	6205	16 39.9	+36 33					+01 22 22	2 22 [illegible]	2	1 14E
201 14 ~~08~~	6229	16 45.6	+47 37					-27 22 29	24m 22 42		1 02E (1 01E)
201 15 ~~09~~	6426	17 42.4	+03 12					-20 23 29	23 53		1 49E
201 16 ~~10~~	6366	17 25.1	−5 02					-10 23 56	12 00 08		0 15W
201 17 ~~11~~	6171	16 29.7	−12 57					+08 00 20	14 00 34		0 07W
201 18 ~~12~~	6712	18 50.3	−8 47					-02 00 39	16 -12 00 50		0 58E (0 33E)

Dome Temp. 63°F

Focus

Dome Temp. +55°

Transparency Conditions Scattered Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
(0 48W)	calculated					Thin clouds	
0h37mE						focused on η Boötis focus out 1 rev.	
2 52W						Thin some clouds	
0 52W						apparently clear	
1 14E						" "	
1 02E						" "	
(1 01E)	The Hr ∠ would have been 1 01E if exposure had lasted 14m					much cloud in south - & finally an cluster	
0 49E						refocused on β Ophiuchi	
0 15W							
1 07W						some clouds.	
0 58E							
(0 53E)	(calculated for 16m)					area completely covered by clouds ✓	

P.H. #2 loaded in frig.

	HC	SC	HTC	STC	SW	S	M.E.
June 12	-22.6s	-28.6s	-26.8s	-.3m	-27s	-25.4s	-10.5s

Date Sun June 14-15/53 Observer We. Hd - H.C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
19	+11°2910									
20 ~~17~~	M 293	16 01.2	+10 57	I-25	E103a O	008	18.8	20 42	22 42	4
	Focus test									
20	V451 Oph	18 24.5	+10 49	"	"	"	18.8	12 57	23 51	1
21	M 333									
20 ~~15~~	70 Oph AB	18 00.4	+02 31	"	"	"		23 56	23 57	2
								23 58	00 01	
								00 04	00 06	
22	32 Cygni.									
20 ~~16~~.	~~M 397~~	20 12.3	47 24	"	"	"	19.0	00 16	00 17	3
								00 18	00 24	
								00 25	00 27	
23										
20 ~~17~~	32 Cygni	"	"	"	"	"	18.8	00 28	[illegible]	2
	"	"	"	"	"	"	18.8	00 49	01 [illegible]	
24										
20 ~~18~~	MWC 376	21 39.3	57 17	"	"	"	18.9	02 05	[illegible]	1
								02 31	02 51	
25	B 5900									
20 ~~19~~	M 1(6)	22 48.2	16 19	"	"	"	18.9	03 09	[illegible]	2
	Focus Test			O.T.B.						

Dome Temp. 65 F

Focus 15.695

Dome Temp.

Transparency Conditions

Jun. 13 Changed to 25" Camera: 12½" was Focus 12.922 T.It 20.35 25" is Focus 15.638 T.It 23.15

Sat June 13 (cloudy) about 8 visitors We + Bk showed Telescope

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 8m	+10 46	1-2-1	8.5	K0	5 5 5-5	Ho is binary Set 5 Developed	fine
O.T.B.					10/7	Set 9 fine OK	
E 1 21	+10 50		7.9	A0	5-5-5	Ecl. bin. Trivial double. Fainter comp about 1 slot long to N Tried to keep its light out	fine
			4.0	dK0	0	5 " 2 Ho is bin	good
					15.	" 5	str
E 41m					0	" 9	str fine
			4.2	CK5 +A5	0	" 2 No comp!	fine (as wanted) str + fair as wanted
					15.	" 5 poor guiding	
					0	" 9 No comp!	str (as wanted)
0 11 E	4733	1-2	"		5-5-5	" 2 slightly poor guiding	str (as wanted)
0 11 E		1-2	"		5-5-5	" 8 scratched in critical region	very str (as wanted)
0 16 E	5738	2-3	7.0	B-ne	5-5-5	" 2 Br Bin Just one star. Focus must have been poor.	fine
0 20 E	"	2-3	"	"	5-5-5	" 7 " " Northern Component	fine
0 13 E	16 34	0-1	5.7	A1	5-5-5	2 Br Bin	fine
					2/7	1 Br Bin	bright
						Spec — is Bright	

Date Mon June 15/16, 1953 Observer Ho } -Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20126	(B2824) M202 B6129	$10^h\ 32.2^m$	$+34°\ 36'$	I-25	E103aO	.008	23.1°	$21^h\ 15^m$	$22^h\ 25^m$	2
20127	M476	23 47.5	+74 59	"	"	"	23.0	22 50	23 35	3
20128	32 Cygni	20 12.3	+47 24	"	"	"	23.0	23 45	00 45	4
	"	"	"	"	"	"	23.0	00 45	01 [illegible]	[illegible]
								01 06 30	01 13 30	
20129	M.W.C. 346 H.D. 195407	20 26.0	36 39	"	"	"	23.0	0122	[illegible]	1
20130	M.W.C. 375 H.D. 199140	2256.3	32 10	"	"	"	23.0	0233	[illegible]	1
20131	M 1	22 00.2	-06 16	"	"	"	"	0307	0315	2

Dome Temp. 69°F

Focus 12.7.7

Dome Temp. 60°F

Transparency Conditions Poor – Some Cloud

Some Clouds.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0H 3h 8m W	34 79	00-1	6.7	K2	5-5-5	Ho binary { Power wire in hand, guide star up, (Start delayed) – Hope to get light clouds clock not driven! on guiding }	not good
	06 57 E	75 15	0-1	6.6	dK5	15 5.	Ho binary – 15 Comp. since diffuse to get Pet.	fair
	E	47 34	0-1	(4.3)	[illegible]	5-5-5	Eclipsing binary.	fair – poor
	1.17 E					5-5-5	" 5	poor
	1.11 E					5-5-5	" 0	poor – bad
	1.17 E	36 47	0	7.7	B3e	5-5-5	Hd Be – star	good
	2.46 E	38 24	0	6.4	B3ne	5-5-5	" 7 " " " guiding	fair
	2.24 E	-0600	00	4.7	K0	15	[illegible]	not good
						10/7	" 7	all wrong
							2 P.H. +1	

	HC	SC	MTW	STW	SW	S	M. E.
June 15	-23.4	-16.9	-23.2	-.2	-8	-15.2	-2.9
17	-24.8	-43.3	-31.0	.0	-23	-44.1	-13.1

Date Thurs.-Fri., June 18-19, 1952 **Observer** we - Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20132	M202	$10^h\ 32.^m2$	$+34°\ 36'$	I-25"	E-1030-O	0.008	+25.0	$20^h\ 59^m$	$22^h\ 35^m$	1
20133	32 Cygni	20 12,4	+47 24	"	"	"		$22^h\ 55$	$22^h\ 57^m$	1
	"		"	"	"	"		$22^h\ 59^m$	$23^h\ 07^m$	
	"		"	"	"	"	+25.0	$23^h\ 18^m$	01 08	
20134	32 Cygni	"	"	"	High-Speed	"		01 09	01 11	3
	"	"	"	"	"	"		01 12	01 18	
	"	"	"	"	"	"		01 18	01 36	3
20135	31 Cygni	20 10.5	+46 26	"	E-1032-O	"		01 41	01 45	2
	"	"	"	"	"	"	+5.1	01 46	01 5[illegible]	
20136	H.D. 200775	21 00.4	6747		H.-Spec.		25.0	3333	0330	3
	Focus Test			073						

Dome Temp.
Focus 15.7
Dome Temp.

Hour Angle End

Dome Temp. 72
Focus 15.786
Dome Temp. 67

Fri. May 19. Showed 72" telescope and sun on celostat to 75 children. L, Mo.

Transparency Conditions Hazy in all directions, but much worse E & S with distant Cumulus Ci and Cs in W. and N.W.

24

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 30m W	+34° 17′	1→0	6.7	K2	5s-5s-5s	Haze at horizon. Only star in field. Ecl. bin.	poor
1h 45m E	+47° 32′	1	4.3	ck+A	12s-12s	Ecl. bin. Set 2 Field spotted immediately after	fair
2 30 E	"	1-2	"	"	8s-8s-8s	Set 5	poor
1 32 E	"	2-1	"	"	6s-6-6-6	Set 8	fair
1 29 E	"	50	"	"	20s-25s	" " Set 2 Plate spotted	poor
1 22 E	"	"	"	"	15-30	Set 5	fair
1 05 E	"		"	"	15-15-15	Set 8	
00 56 E	+46 33		(4.0) "	cK,+B "	5-5-5	" 2 Ecl. bin.	
00 43 E	"	1-2			5-5-5	" 8	poor
00 00	67 55	1-2	7.5	B-m	10-10-15	Only star in field. Master's Pe star in exit	good
					20/16	0230 Hazy	

3 Phi + 12 + 24 Sp.

	HC	SC	H SW	S SW	SW	S	ME
June 19	-20s.8	-15s.1	-11.50 ~~-25.2~~	.0m	-31s	-15.5s	-10.1s

Date 1953 Fri/Sat Jun 19/20 Observer Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20137	HD 175578	18 50·9	+29 54	1-12½	E103·a·0	·008	+26·0	00 24 38	01 02	1
20138	AG 9675	19 07·3	+26 14	"	"	"	+26·0	01 05 38	01 43	1
20139	HD 184467	19 29 5	+58 29	"	"	"	+26·0	01 54	02 02	2
20140	HD 191875	20 07·0	+29 25	"	"	"	+26·0	02 10 44	02 54	4
20141	HD 198254	20 44·0	+28 10	"	"	"	+26·0	02 ~~01~~ 59 (2?)	03 ~~01~~ 33 (3?)	1
	Focus Test	O·T·B.								

Dome Temp. +75° F.
Focus 12.922
Dome Temp. +71° F.

Transparency Conditions very hazy at horizon
clear at zenith

June 19 Changed to 12½" camera — 25" was Focus 15.786 Filt 23.15 — 12½" is Focus 12.922 Filt. 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 16 E	+29 56	2	8.35	G5	2-2-2	Set 2. AG 25	good
0 08W	+26 17	2	8.42	G	2-2-2	Set 8 "	Good
0 06W	+58 26	2	7.70	K5	2-2-2	Std. Vel.	fine
0 20W	+29 31	2½	8.75	K2	2-2-2	Set 2. AG 25	Good
0 22W	+28 19	2½	8.70	K0	2-2-2	Set 5 "	l. vel.
					4-3	Set 9 clouds at 3 1:22 (3P)	all right

Date 1953 Sat/Sun June 20/21 Observer Ho Mo - Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20142	HD 144579	16 01.5	+39 25	1-12½	E103a-0	.008	+27.0	22 33 18	22 51	2
20143	HD 169819	18 21.4	+25 56	"	"	"		22 57	23 25	3
	"	"	"	"	"	"	+26.6	23 25 64	00 29	3
20144	HD 171830	18 31.8	+27 02	"	"	"	+26.6	00 44	01 54	4
	Focus Test	O.T.B.					+26.6			

Dome Temp. +72° F
Focus 12.922
Dome Temp. +71° F

Transparency Conditions Much haze

100 visitors Showed ζ Ursa Major with 74", Moon with coelostat
R.A.S.C. Amateurs set up their telescopes on lawn.

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
22 51	2	0 26W	+39 14	0	7·6	G8	2-2-2	Std. Vel. Set 5	fair
23 25	3			½	8·72	K0	2-4	AG 25 Set 2. For part of this exposure I was following a star close to HD 169819 I lost the the star off the slit; when I found it again I wondered why it was so much fainter	fair
23 29	3	0 16 E	+25 57	½	8·72	K0	2-2-	" Set 8	ok
23 54	4	0 59W	+27 08	½	8·62	K0	2-2-2	" Set 2 Thin clouds at 1:20	ok
							4-3	Lightning in north, east, and west. Increased lighting in east, clouds, and east wind forbodes rain.	ok!
								4 P.H. Loaded (in refrigerator)	

all plates defective in manufacture

29

Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H

Dome Temp.
Focus
Dome Temp.

Hour angle Int

Dome Temp. 62°F

Focus 12.7

Dome Temp.

Transparency Conditions Fair

Some Haze

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible]	[illegible]	2.12	[illegible]	2-2-2 1/2	A.G. 25 Plt 2. Some pin-holes over plate. 3 P.H. in Area.	Fair. [illegible]

Plate defective in manufacture.

MC	SC	MTW	STW	SW
-30.0^s	-14.5^s	-32.2^s	.2^m	+15.5^s

(Hd)
(Ho)

Date Mon.-Tues. June 22-23 1953 **Observer** We - Mo **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20146	HD 10H817	1h 59.1m	+3° 01'	I-13	E 103a-J	0.016	+26.4	20h 57m	22h 07m	1
20147	HD 11 4262	13 07.5	+18 02	"	"	0.016	+26.1	22h 11m	22 37	2
20148	HD 14 5001	16 03.6	+17 19	"	"	0.008		22 56	22 58	3
	"	"	"	"	"	"	26.0	23 01	23 15	
	"	"	"	"	"	"		23 08	23 14	"
20147	HD 14H529	16 01.5	+39 29	"	"	"		23 27	23 35	8
	"	"	"	"	"	"	26.0	23 41	23 56	"
	"	"	"	"	"		+26.0	23 56 29m	00 20	
20150	HD 192031	20 07 7	-15 43	"	"	0.016	+26.0	00 49	03 15	1
20151	EE Peg	21 35.1	+08 44	"	"	0.008	+26.0	03 20 20m	03 40	2
	Focus Test	0.7 B								

Dome Temp. 76°F
Focus 12,932
Dome Temp. +60° F

Transparency Conditions [illegible]

32

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3h 51m W	+1° 43'	0	7.9	(A2)	1S-1S-1S	[illegible] Flexure	[illegible]
3 28m W	+17 43	0	8.2	F7	1S-1-1	Lt 6 Std. mel.	fair
	+17 38	0+1	6.1	G4	6S	Lt 2 Std. mel.	fair
2 45 W	"	"	"	"	6	Lt 5 " "	[illegible]
	"	"	"	"	6	Lt 8 " "	[illegible]
	+37 15	0	7.6	G8	3-3	Lt 2 Lt 1, mel [illegible]	[illegible]
1 38 W		0!	"	"	2-2-2	Lt 5 " "	[illegible]
2 03 W	"		"	"	2-2-2	Lt 8 " "	[illegible]
0 51 W	-15 35	0	9.4 GeV		1-1-1	N.R. Field checks. Went as far west as possible Hi Vel. Dome turning relays failed: O.K. now	fair
0 11 E	+8 55	0	7.0 -7.5 vis.	Ao	2-2-2	Bakos° Ecl. Bin	[illegible]
					4-3	3 P.H in box in refrig.	
						Flashlight needs new batteries.	

Date 1953 Tues/Wed June 23/24 **Observer** Mo – HV **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle East
20152	HD 104392	11 56.2	+29 47	I-12½	E1030.0	0.008	+20.0	21 26	23 16	1	5.00W
20153	HD 144579	16 01.5	+39 29	"	"	"	+20.0	23 25	23 39	2	
20154	HD 192286	20 09.0	+30 11	"	"	"	20.0	23 47	01 07	3	
20155	" 195667	20 27.6	26 42	"	"	"	20.0	01 15	01 17	4	
20156	" 195712	20 27.9	26 44	"	"	"	17.0	01 20		5	
	Focus	Test			0.75						

Dome Temp. +63°F
Focus 12.942
Dome Temp. +55

Transparency Conditions Good

Correction to S.T.W. is −0.5m

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 07W	+24 28	0-1	8.9	K0	2-2-2	AG 25	
1 25W	+39 19	1	7 6	G8	2-2-2	Std. Vel	
0114E	3 18	0	8.75	G5	2-2-2	AG 25	
0032E	26 42	0	8.55	K2	2-2-2	"	
0105W	26 53	0	8.65	K0	2-2-2	"	
					8/6		
						3 P.H. in fog.	

35 ▽ E

Wn = Wellmann

Wed/Thurs.

Date June 24-25/53 Observer Wdn – Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
		1900 14.2	1900 09							
I0157	HD 136202	15 ~~16.8~~	~~+01 57~~	I-12	E103a0	008	22.0	21 03	21 11	1
								21 11	21 15	
								21 16	21 18	
I0158	HD 136577	15 16.4	58 52	"	"	"		21 25	21 55	2
I0159	" HD 136749	15 17.3	+61 43	"	"	"	22.0	22 02	22 26	
I0160	HD 193435	15 40.7	26 08	"	"	"	22.0	22 34	23 34	3
I0161	HD 198566	19 50.7	25 04	"	"	"	22.0	23 40	00 40	
										4

Dome Temp.
Focus 2
Dome Temp.

Hour Angle End

E of m

9E

Dome Temp. +62

Focus 12.942

Dome Temp. +60° F

Transparency Conditions V poor at first - improving

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+1 53	0	5.74 mg. 5.2?	G0	2-4	Std Vel * Set 1.	Poor
					6	" 5	Poor
E 07m					6	" 9	Poor
0h 30 W	+18 37	0	7.90	K0	2-2-2	Set 2 KA prog.	Poor
W 1 01	+61 22	0	7.95	G0	2-2-2	" 8 "	Poor
E 1 15	+26 10	0-1	8.72	G5	2-2-2	" 2 AG Prog	Poor
1 19E	+25 11	2	8.20	K2	2-2-2	" 8 "	Poor

CO 44 Clouds - could not see star in finder

02 10 Put telescope to bed.

Clouds are blacker and thicker than India ink I use for plate [illegible]

Began to rain as I left dome.

3 PH loaded - flashlight would bother [illegible]

June 25 MC SC MTW 17W [illegible]

-29.5° -12.0° 00.0 +.4m +13.0°

37

Date Fri-Sat. 1953 June 26/27 Observer Mo - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20162	HD 104076	11 54.1	+25 12	1-12½	E103-a-0	0.008	+19.9	20 55	22 59	1	5 4W +
20163	HD 144579	16 01.5	+39 24	"	"	"	+29.4	23 10	23 20		4W -
20164	HD 194525	20 21.0	+30 15	"	"	"	+24.4	23 30	00 30	2	E .
20165	" 194510	20 20.9	25 24	"	"	"	24.7	00 36	01 36	"	
20166	A.G. 11332	20 23.3	27 41	"	"	"	24.5	0134	0238	3	W
20167	H.D 195509	20 26.7	26 21	"	"	"	24.3	0244	0312		
20168	EE Peg.	21 35.1	+08 44	"	"	"	24.3	0318	0332	4	W
	Foc.	Test		O.T.B.							

Dome Temp. +71°F
Focus 12.942
Dome Temp. +64

Transparency Conditions Good

0209 Dusty Nebulosity in Cygnus — still in Neb.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 59	1	5 04W	+24 54	0-1	8.68	G0	2-2-2	Set 2. AG 25 Flexure	
13 20	1	1 19W	+39 15	2	7.6	G8	2-2-2	Set 8 Std. Vel	
15	2	01 51E	+30 23	1	8.42	G5	2-2-2	Set 2 AG 25	
		0 55E	+ 25 32	0-1	8.33	G5	2-2-2	" 7 " "	
		35 15 N	27 52	0	8.6? Dis.	G5	2-2-2	" 2 " " Setting * pair	
		0 46W	2631		7.71	K0	2-2-2	" 7 " "	
		2 23W	+08 55			A0	2-2-2	" 5 BK's E-1 Bin.	
							2/8	" 1	

2 P.N. in fig.

39

Date 1913 June 27-28 Sat.-Sun. Observer L° — L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
2016 9	HD 13200?	1h 30.5m	+25° 2.1'	I-14"	E-103-0	0.108	27.0C	22h 33m	23h 43m	2
2017 10	AG. 9236	18 43.3	+28 19	"	"	"	20.9	23 30	01 04	2

check numbering of fields

Nos. for 2011-2016

Also numbers on programme sheets

Checked

Dome Temp. 71°5

Focus 12.742

Dome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 05W	28 17	0	8.61	G_0	2.2-2	Std 8 " " Comp. ended at 06.35, clouds from NW. 1 Pot. broken in refrigerator	fair

Date Sun - Mon 1953 June 28-29 Observer Mo - Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20171	HD 103614	11 50·8	+26 03	1-12½	E1030·0	0·008	+25·9	20 55	23 01	1
20172	HD 144579	16 01·5	+39 29	"	"	"	+25·5	23 09	23 17	
20173	~~HD 182218~~ BD+25°3814 = HD 182255	19 18.7	+26 04	"	"	"	+25·9	23 27	00 17	2
20174	HD 197020	20 35·9	+2541	"	"	"	25·8	00 22	01 06	"
20175	" 197395	20 38.3	+2954	"	"	"	25·8	01 32	02 13	3
20176	" 197515	20 39.1	+2515	"	"	"	25·8	02 40	03 21	"
20177	EE Peg	21 35·1	+2344	"	"	"	25·7	03 31	04 11	2
	Test	Test		O.T.B.						

Dome Temp. +74°F

Focus 12.942

Dome Temp. +65

Transparency Conditions Good at beginning

0140 Dome would not turn. Could - / hour relays stick. Closed them manually. a couple of times. No notes on it

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							clouds 21:12 to 21:57 flexure	
23 21	5 17 W	+25 45	0	8.75	G_0	2-2-2	Set 2 · AG 25 thin clouds	good
23 17	1 24 W	+39 14	2½	7.6 4.8	G0 B5	2-2-2	Set 8 SW. Vel. thin clouds	
23 9	0 54 E	+26 07.5	2½	~~8.91~~	~~K_0~~	2-2-2	Set 2 AG 25 thin clouds	
[illegible]	2 55 1	25 5 1	0	8.51	G_0	2-2-2	Set 8 " thin clouds	
[illegible]	0006W	30 0 3	0	8.61	K_2	2-2-2	" 2 "	
[illegible]	055W	25 24.5	0	8.23	K_5	2-2-2	" 6 "	
[illegible]	0057.5	08 57.5	0	(7.5)	A_0	2-2-2	" 5 Bk's Ecl. Bin.	
						P/G		
							1 P.H. in Beg.	

43

Date Mon.-Tues. 1953 June 29-30 Observer We – Hv Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20178	HD 105080	12h 00.4m	+29° 04′	I-12½″	E-103a-O	0.033	26.2°	21h 24m	23h 04m	1
20179	HD 149142	16 27.8	+26 15	"	"	"	26.1	23h 02m	01 03	1
20180	" 187691	1946.2	+10 10	"	"	"	26.0	01 15	01 21	2
								01 21 30	01 33 30	
						.016		01 34 30	01 39 30	
						"		01 38 30	01 44 30	
20181	184467	19.7.5	-5°24	"		.016	26.0	02 01	02 31	3
						.008				

Done Temp.
Focus
Done Temp.

Hour Angle End

Dome Temp. 71°F. start delayed because delays for dome-turning motor failed.
Focus 12,942
Dome Temp. Beware of dome-turning motor sticking.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-14m W	+28° 42'	1→0	7.9	K_0	2^s-2^s-2	AG-prot. on sky, star lt. thick. Flexure 22h 0m. Set 2. Set dec. out by 5'.	good
52m N	+26 12	0	8.3	G_5	2-2-2	Set 3. AG-prot. on	
0 1/4 E	+10° 16	0	5.78	F_8	2-4	" 2 Set 1	
20 E					2-2-2	" 4	
					6	" 6	
4W					6	" 5	
1/2 N	+5 52 B	0	7.7	K_5	1-1-1	" 2	
					4/2	" 3	

al. poor guiding. Mill motor in operation all or nearly all. Exit W

all too short

too short

all right

MC	SC	MTW	STW	SW
-33.3^s	-4.1^s	-24.5^s	000	-66.1^s

45

Galvanometer 7 points to right of zero. Reset to zero at 02:00.

Date ..... Observer ..... Mo Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle Final
20182	AG 9236	18 43·3	+28 19	"	E 103 a-O	.008	24.2 24.0	23 52	01 02	1	
20183	HD 187162	19 43·4	+28 14	"	"	"	23.7 23 5	01 14	02 44		
20184	HD 212993	22 22·8	+04 12	"	"	"	+23.5	02 53	02 55	2	
	"	"	"	"	"	"		02 56	02 57		
	"	"	"	"	"	"		02 59	03 03		
20185	HD 206155 EE Peg	21 35·1	+08 44	"	"	"	+23 5	03 26	03 36	3	
	"	"	"	"	"	"		03 36	03 46		
	Focus Test.	07 8									

Dome Temp. [illegible]

Focus [illegible]

Dome Temp. +58°F

Transparency Conditions Good

Strong north wind all night
Scattered clouds at 00h.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0 42 W	[illegible]	1½	8.61	G_0	2-2-2	AR 25, pl 12 flexure	fair
[illegible]	1 24 W	+28 20	0-1	8.95	G_5	2-2-2	" set 8	fair+
[illegible]			2	5.93	K_0	6	Std Vel set 2 Comp. str.	good
[illegible]			"	"	"	6	" 5	poor
[illegible]	0 57 E	+04 25	"	"	"	6	" 8	fair
[illegible]	0 29 W	+08 55	1	7.0 7.5	A_0	2-2-2	Binary - Bakos Set 5	good
[illegible]	0 28 W	"	"	"	"	2-2-2	Set 8	poor
						4-3	Set 10 1 pH loaded	fair+ wl

MC	SC	MTW	STW	SW
-36.7	-1.0^s	-41.8^s	$-.4^m$	-15.0^s

47

Date Fri-Sat, Aug 3/4, 1953 Observer Wm — Hx Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20186	HD 105020	12^h 00.4	-24° 04'	I-12.5	103a-0	0 .08	-21.2	21^h 05^m	22^h 50^m	4	1.04
20187	HD 143688	15^h 56.8	$+24^\circ$ 44'	"	"	"	+21.2	22^h 56^m	01 [illegible]	1	
[illegible]	" 135269	1933.2	2817	"	"	"	20.8	0156	01 [illegible]	1	
20187	135269	1953.3	2805				20.9	01 [illegible]	[illegible]		
20190	135362	1756.7	2729	"		"		c. 30	33	2	

Dome Temp. 62° F

Focus 12.943

Dome Temp. ~5°1

Transparency Conditions Good

Ending Time E.S.T.	P.A.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		5h 15m W	+28° 45'	0-1	8.9	KO	2-2-2	AG 25 ft+2 Flexure Plate badly fogged,	good
			+24° 34'	0-1	8.9	KO	2-2-2	AG 25 ft+8 Just measurable. (Slide drawn in light)	too str.
					7.9?	G5	2-2-2	m~7.2 Mag. NG.	too str
									str.
									str.
							1/3		all right

1 P.M. in [illegible]

Date 1953 Jan 4-5 G.M.T. Observer Ve - Bk Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20171	HD 15638	16h 4m	+24° 46'	12"	5-020	0.002	28°,1C	23h 2m			
20172	"	19 46	+18 10	"	"	"	27 8	01 48	01 54		
20173	HD 208704	21 35	+08 40	"	"	"	24 8	02 02	02 15		
	Plate Tilt OK.										

Dome Temp. 64°F.
Focus 12.943
Dome Temp. 60°=

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3[illegible] W	+24° 37'	0-1	8.8	K_2	2^5-2^5-	Set 2, AG, prog on	V good
	0 37 W	+10 16	1	5.72	F2	2-2-2	pic 5	V good
	8 1[illegible] E	+11 57	0	11.75	F0	2-2-2	pic 2 SE Pair	fine
						G/V	pic 7	
							The prog. transit with dec. motors in place	
							MC SC MHW SHW SW S HF	
							July 6 +0.3 +1.8 +19.3 +.6 -23 +0.5 .24	

SD

Date 1952 July 6/7 Hm.-Tucs Observer Hm – Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
[illegible]	HD 10[illegible]	12h 3m [illegible]	[illegible]	I 6.5	[illegible]	[illegible]	+23°	20h 58m	21h [illegible]	1
[illegible]	HD 12 37 22	14h 04.6	+49° 58′	"	"	"	[illegible]	22h 04	22h 12	
20 196	HD 13 39 22	15h 02.0	+26° 49′	"	"	"	+23°0	22h 20	23h 40	2
20197	AG 10315	19 39.0	+27 44	"	"	"	+22.8	23 47	00 33	"
20198	HD 197207	20 37.2	+29 49	"	"	"	+22.8	00 50	01 16	3
20199	HD 198238	20 43.9	+26 02	"	"	"	+22.8	01 19	01 55	"
20200	HD 198482	20 45.5	+30 16	"	"	"	+22.8	01 58	02 30	4
20201	HD 199440	20 52.1	+27 07	"	"	"	+22.8	02 33	03 09	"
20202	HD 198198	20 43.6	+29 16	"	"	"	+22.8	03 13	03 41	1
20203	HD 206155 EE Peg.	21 35.1	+08 44	"	"	"		03 44	03 50	2
	"	"	"	"	"	"	+22.8	03 51	03 54	"
	Focus Test	O.T.B								

Dome Temp. +68°F

Focus 12.943

Dome Temp. +58°F

Transparency Conditions Good

52

23h very showy double auroral arc
This magnificent pale-green arc across
the whole northern sky lasted until dawn

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4h 04W	+25°39'	0	8.5	K2	2-2-2	AG 25 Set 2 Flexure	
2 49W	—	0-1	6.8	M2	6	St. Vel Set 8	
3h 18W	+26°35'	0	8.9	K2	2-2-2	AG 25 Set 2	
0 26E	+27 47	1	8.49	G0	2-2-2	" Set 8	
0 41E	—	1½	8.12	G5	2-2-2	" Set 2	
0 09E	+26 13	2	8.61	K5	2-2-2	" Set 8	
0 25W	+30 26	2½	8.61	K2	2-2-2	" Set 2	
0 57W	+27 18	2½	8.91	K0	2-2-2	" Set 8	
1 38W	+29 26	2	8.33	K0	2-2-2	" Set 5	
0 55W		2½	7.0 7.5	A0	3-3	Bakos' Binary. Set 2	
0 59W	+08 55	2½	"	"	6	" Set 5	
					6-4	Declination axis seems to be dripping oil at north-west corner of south pier. Dome-turning relays failed to work once.	

HE s SE s MPM SPM Sa

July 8 −2.6 +03.7 +0.2 +0.2

52

Date Wed July 8-9 1953 Observer Wm-L-Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20204	A.G. 6249	12 43.4	25 41	I-12½	E-103aO	set 008	+22.8	21 00	22 [illegible]	1
20205	V 805 AQL	19 00.7	-11 48	"	"	"	+22.7	22 36	23 08	1
20206	V 548 Cyg	19 54.6	+54 32	"	"	"	+22.6	23 14	00 34	2
[illegible]	H.D. 187548	19 45.4	[illegible]	[illegible]	[illegible]	[illegible]	22.7	[illegible]	[illegible]	[illegible]
[illegible]	" 187565	19 45.5	+49 08	"	[illegible]	"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	" 187514	[illegible]	[illegible]	"	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

July 9

Dome Temp. +65°F — 9?.884.

Focus 12.A#3 Zen

Dome Temp. 57°

Transparency Conditions Excellent

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 33W	25 23	0	8.99	K2	2-2-2	A.G.25 Lt 2	l. weak
1 09E	-11 45	0	7.8-8.5	A?	2-2-2	Lt ? Eclipsing Binary	fine
0 [illegible] E	54 39	0	8.57	A?	2-2-2	Lt 2 Eclipsing Binary	strong
[illegible] W	2? 2?	0	8.56	G-5	2-2-2	A.G.25 " 2	strong
[illegible] W	27 11	0	8.83	G5	2-2-2	" 2	[illegible]
0 [illegible] W	27 0[illegible]	0	8.74	M3	2-2-2	" 7	fine
					2/3	" 7	a. c.
						I.N.H. +8.	
Changed to I-25			I-12 Tilt was		20.35	2 to I-25 Tilt 23.15.	
			focus "		12.943	Focus.	

55

Date 1953 July 9/10, Thurs.-Fri. Observer Whw – Hs Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20 210	V 566 Oph	17h 51.9	+5° 0'	I-25	103a0	C.008	+19.1	20h 50m	22h 12	4
	Focus test	O.T.B.		"	"	"				
20 211	V 805 Aql	19h 0.7	−11° 48'	"	"	"	+19.1	23 40	0100	1
20 212	V566 Oph.	17 51.9	+05 00	"	"	"	19.9	0107	0247	1
20 213	H.D. 187691	19 46.2	+10 10	"	"	"	18.8	02 51	0305	
20 214	" 212743	22 22.8	+04 12	"	"	"	18.8	0314	0326	2
	Focus test	Focus test	Focus test							

Dome Temp. +62°F

Focus 15.698

Dome Temp. +56°F

Transparency Conditions [illegible]

8

Ending Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]		0° 45" E	+5° 0	0!	7.8/8.21	E5	8-8	Set 2 Ecl. Bin. 21° Cond. Cir. [illegible]	[illegible]
							12-7	Set 8	
[illegible]		00 50 W	−11° 46'	0	7.8/8.5	A2	5-5-5	Set 2 Ecl Bin. 0015 Clouds	
[illegible]		0 [illegible] W	0 1 58	0	7.8/8.1	F5	5-5-5	" 7 Ecl Bin. 0110 [illegible] ~~[illegible]~~ *	
[illegible]		0 [illegible] W	+1 0 12	1	6.78	F8	5-5-5	" 2 Sh. Val	
[illegible]		0 [illegible] E	0 1 27	0-1	5.93	K0	5-5-5	" 7 " "	
							12/7	" 7	

* Motion of plate holder or flexure.

July 10 [illegible]

57

Date July 10/11, 1953, [illegible] Observer Hr - [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle Rad
20015	V 566 Oph.	17 51.9	+05 00	I 12½	Hi Speed	.008	21.8	21 08	21 50	1	
20016	H.D. 123612	1403.6	24 47	"	E103a-O	"	21.8	21 58	22 36	2	1
20017	" 141690	15 46.3	25 46	"	"	"	21.8	22 31	23 16		
20018	V 805 Aql.	19 20.7	−11 48	"	Hi Speed	"	21.7	23 53	00 32	1	
[illegible]	H.D. 167921	18 47.4	+5 12	"	E103 O	"	21.8	00 44	01 02	2	
[illegible]	H.D. 193611	20 12.4	+29 48	"	"	"	21.3	01 12	01 40		
[illegible]	V 566 Oph.	17 51.9	+05 00	"	Hi-Speed	"	21.2	02 20	03 14	2	
[illegible]	V 500 Lyr	18 54.6	+34 32	"	"	"	21.5	03 12	03 56	3	1
[illegible]	H.D. 200655	21 20.1	+29 44	"	E103-a-O	"	"	03 43	04 03	4	
[illegible]	H.D. 187691	19 48.2	+10 10	"	"	"	"	04 12	04 34		
	Focus Test	1 P.M.									

Dome Temp. 1
Focus 0.1
Dome Temp.

Dome Temp. +68

Focus 12-943

Dome Temp.

Transparency Conditions Hazy + Some T.-Cl.

58

July 10 Changed to 12½ Camera 25" was Focus 15.698 Tilt 23 15 12½ is Focus 12.943 Tilt. 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible] 7E	+04 57	0	7.8 / 6.1	F5	4-2	Set 2 Excl Blu.	fine
3.7 W	+24 32.5	0-1	7.56	K2	2-4	" 2 Blue 25	very good
[illegible] W	25 35	0	8.02	G5	2-2-2	" 5 "	fine
[illegible] W	-11 45.5	0	7.8 / 6.5	A2	11-4-4	" 2 Excl Blu	V. weak
[illegible] 10 E	27 40	2-1	7.7 / 7.2	F5	2-2-2	" 2 Blue = 5	two strong
[illegible] 14 W	39 36	1	8.32	F2	2-2-2	" 7 " "	Fleeting !!
[illegible] 5 pm	04 57	0	7.9 / 6.1	F5	4-4-4	Set 2 Excl Blu.	two weak
[illegible] 38 E	14 40	1-2	7.9 / 6.7	A0	1-4-4	" 2 " "	fine
[illegible] 14 W	25 57	1	7.9 / 7.5	A0	2-2-2	" 2 " "	strong
[illegible] E	15 17	1	37E	F5	6	" 6 Blue Blue.	two strong
					4½	" 9	2 K
						P.H. #1 Tentative	
						#3 Camera	

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Date 1953 July 12/13, Sun.-Mon. Observer Wm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20 225	HD 149142	$16^h 27.^m8$	$+26^\circ 15'$	I-12.5	103a O	0.008	+24°.7	$22^h 22^m$	$22^h 52^m$	1	1.5W
20 226	HD 182056	$19^h 17.^m8$	$+30^\circ 11'$	〃	〃	〃	+24°.7	$23^h 2^m$	$0^h 32$	〃	1.1W

Dome Temp. +70°F

Focus 12.943

Dome Temp. +68°F

Transparency Conditions

Sat. Jul. 11 - Rain showed 74 to 25 visitors N - Mo - Sx.

Jul. 12/13: At beginning: sky clearing, scattered clouds

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23h28m	1h 27m W	+26° 7'	1	8.3	G5	2-2-2	AG 25 Set 2 Short interruptions by clouds	fine
0 16	0 18 W	+30° 17'	1	8.4	G5	2-2-2	AG-25 Set 8 several long interruptions by clouds mid-exposure ~ 23h20, eff exposure time ~ 25 min, quite uncertain	l. check

clouds are forming all over the sky, dome closed 0h35m

Pl. h. 2/4 } 1030 used for experiment July 13

J Cramer Hz-speed.

	HC	SC	HTC	STC	S	SW	ME
July 13	-6.7	+11.1	-5.5	+.2	-2.9	0	+21.0

Date Mon. July 13-14 1953 Observer HSH-L-BK Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	How Angle Set
20227	NGC 5904	15 16.0	+02 16	Newt				21 [illegible]	[illegible]	2	
20228	5634	14 [illegible]	-05 45	"				21 32	21 [illegible]	1	0° 34 W.
20229	6171	16 [illegible]	-12 57	"				21 57	[illegible]	1	
20230	6366	17 [illegible]	-05 [illegible]	"				[illegible] 26	[illegible]		
20231	6712	18 50.3	-08 47	"				[illegible] 51	[illegible]	2	
20232	6838	19 51.3	+18 38	"				[illegible]	[illegible]		0°
20233	6426	[illegible]	[illegible]	"				[illegible]	[illegible]	2	1/4 W
20234	6712	18 50.3	-08 47	"				23 51	00 07	1	
20235	6838	19 51.3	+18 38	"				00 [illegible]	00 [illegible]	2	0°
20236	6535	12 01.3	-00 18	"				00 19	00 45	1	
20237	6838	[illegible]	-08 47	"				01 02	01 06	1	1/4 W
[illegible]	NGC 7023	21 01.0	+68° 00'	"				[illegible]	[illegible]	1	1 0° W.
[illegible]	7023	"	"	"				[illegible]	[illegible]	2	1 2° W.

Dome Temp.
Focus
Dome Temp.

Dome Temp. 74°F

Transparency Conditions

Focus

Dome Temp.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01 19W	+02 19						
	02 34W	-05						
		-12						
		-05						
		-11						
	01 22E	+11 40						
	1 13W							
10 57	00 46 W	-09 45						
	00 25E	+10 40						
	01 51W	-10 16						
	0 29W							
	1 09W							
	1 25W							

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Date Tue. Wed. July 14-15, 1953 Observer S. Sk. Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	Hour Angle for
20440	NGC 5904	15 16.0	+0 0 16	10"				21 10	21 12		
20441	6171	16 29.3	-1 0 57					21 16	21 [illegible]	1	
20442	6093	16 14.1	-1 1 8					21 40	21 55	2	
20443	6712	18 [illegible]	-0 8 47					21 57	22 11		
20444	6838	19 51.3	+18 39					22 14	22 [illegible]		
20445	6266	17 [illegible]	-30 02					22 26	22 30		
20446	6426	17 42.4	+03 2					22 45	23 [illegible]		
20447	6712	18 03.3	-=8 47					23 08	23 [illegible]		
20448	6838	19 51.3	+18 38					23 29	23 [illegible]		
20449	6729	19 [illegible]	-36 05					23 37	23 [illegible]		
20450	6760	19 08.6	+0 0 57					23 46	23 [illegible]		
20451	6712	18 50.3	-0 8 47					23 51	23 [illegible]		
20452	6838	19 51.3	-18 38					23 54	23 [illegible]		
20453	NGC 7078	21 01.0	+0 0 [illegible]					24 11	24 [illegible]		
20454	- " -							24 02	24 [illegible]		

Dome Temp.
Focus
Dome Temp.

Dome Temp. +76°

Focus.

Dome Temp. +72

Transparency Conditions Hazy

Thunderstorm [illegible] complete [illegible] for 1st [illegible] of night [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	02 10 W	02 20					Focused on [illegible]	
[illegible]	01 19 W	-11 52						
[illegible]	01 48 W	-13 40					Refocused [illegible]	
[illegible]	01 33 W							
[illegible]	01 25 E							
[illegible]	02 31 W							
[illegible]	01 55 W	+43 [illegible]						
[illegible]	00 44 W	-17 45						
[illegible]	00 05 E	-10 42					Refocused on [illegible]	
[illegible]	01 41 W	+36 09					Heavy haze [illegible]	
[illegible]	[illegible] 30 W	+01 50					[illegible]	
[illegible]	02 06 W	-02 44					Refocused [illegible] [illegible]	
[illegible]	01 16 W	+12 43					[illegible] turned [illegible] for E W [illegible]	
[illegible]	01 14 W	-61 [illegible]					July 15 -8.2 +14.0 -16.2 [illegible] -[illegible] -14.2	+[illegible]
[illegible]	01 35 W							

1953

Date Wed. Thurs. July 15 - 16 **Observer** S - Hr - Mo **Julian Day** 2434574

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
								h m s	h m s		
20255	NGC 5904	15 16.0	+02 16	Newt.	E1030-0			21 22 19 10	21 25 19		1 25 W
20256	6366	17 25.1	-05 02					21 41 25 14	21 51 25		0 10 E
20257	6356	17 20.7	-17 46					21 57 50 17	22 11 50 29 00		0 39 E 46
20258	6712	18 50.3	-08 47					22 15 35 4	22 ~~27 35~~		47 E
20259	6838	19 51.3	+18.38					22 37 57 30	22 41 57		53 E
20260	IC 1276	18 08.0	-07 16					22 54 54 20	23 24 54		0 34 W
20261	NGC 6535	18 01.3	-00 18					23 28 05 12	23 48 05		03 W
20262	6712	18 50.3	-08 47					23 55 46 4	00 07 46		0 34 W
20263	6838	19 51.3	+18 38					00 14 14	00 17 14		0 19 E
20264	"	"	"					00 20 47 40	00 24 47		1 19 E
20265	6760	19 08.6	+00 57					00 40 24 8	01 20 24		26 W
20266	6626	18 21.5	-24 54					01 24 50	01 32 50		1 39 W
20267	6656	18 33.3	-23 58					01 36 56 24	01 42 56		1 26 W
20268	6717	18 52.1	-22 47					01 46 49 14	01 10 49		36 W
20269	6712	18 50.3	-08 47					02 20 34 4	02 34 34		3 21
20270	6535	19 51.3	+18 38					02 38 35	02 42 35		0 54

Dome Temp. +78°

Transparency Conditions Poor

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 25 W						Focused on α Serpentis	
0 17 E							
0 08 E							
1 ~~07~~ 05 E						Maximum eastern Hr∠ for NGC 6712	
1 53 E						Refocused on γ Sagittae.	
0 34 W							
1 03 W							
0 34 W							
0 17 E						Refocused on γ Sagittae	
0 09½ E						Repeated - Guide star jumped - Mc walked into spectrograph	
1 29 W							
2 28 W							
2 26 W							
2 36 W							
3 02 W						Refocused on ζ Aquilae	
2 08 W							

Date Wed Thurs July 15-16 1953 Observer S- Hr- Ma Julian Day 2434574

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J	Hour Angle End
20271	NGC 7089	21 30.9	-01 03	Newt	F1030-0			02 47 06½	02 48 06½		1.3W
20272	6712	18 50.3	-08 47					02 52 09	03 06 09		3.3W
20273	6838	19 51.3	+18 38					03 10 30	03 14 30		2.4W

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp. +71° F

Transparency Conditions .....

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 35 W							
	3 33 W							
	2 40 W						Heavy haze all night, Milky Way not visible	
							Difficult to make focus on F-A at times. Is Barclay out?	

69

Set decl. 03' N of tabulated positions

1953 (We)

Date Thurs., Fri. July 16, 17 **Observer** S - Hr - Mo **Julian Day** 2434575

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle Ini
								h m s.3	h m s		
20274	NGC 5904	15 16.0	+02 16	Newt	E103-a-0			21 23 18	21 26 18		1.3W
20275	6171	16 29.7	-12 57					21 29 50.12	21 41 50		1.33W
20276	6366	17 25.1	-05 02					21 46 07.10	21 56 07		1.35E
20277	IC 1276	18 08 0	-07 14					22 00 39.86	22 36 39		1.1E
20278	NGC 6712	18 50.3	-08 47					22 41 50.12	22 53 50		1.3E
20279	6838	19 51.3	+18 38					22 57 25.4	23 01 25		1.3E
20280	6342	17 18.2	-19 32					23 06 12.29	23 30 12		1.3W
20281	IC 1276	18 08.0	-07 14					23 36 25.36	00 12 25		1.35W
20282	NGC 6712	18 50.3	-08 47					00 15 05.12	00 27 05		1.3W
20283	6838	19 51.3	+18 38					00 30 30.4	00 34 30		1.4W
20284	6760	19 08.6	+00 57					00 37 44.40	01 17 44		1.3W
20285	6717	18 52.1	-22 47					01 23 47.20	01 43 47		1.3W
20286	6712	18 50.3	-08 47					01 49 10.10	01 59 10		1.3W
20287	6838	19 51.3	+18 38					02 02 45.2	02 04 45		1.3W
20288	NGC 7023	21 01.0	+68 00					02 22 13	03 08 13		1.29W
20289	"	"	"					02 09 30	03 23 30		1.4

Dome Temp. +81° F

Focus

Dome Temp.

Transparency Conditions Better than previous night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 30 W						Focused on α Serpentis.	
0 33 W							
0 08 E							
0 10 E							
0 36 E						Field obliterated by locomotive smoke. Refocused on η Serpentis	
1 30 E							
1 33 W							
1 25 W						Refocused on η Serpentis.	
0 58 W							
0 04 W							
1 30 W							
2 13 W						Refocused on η Serpentis.	
2 30 W						The best night of the series for the	
1 35 W						night turned over to E. Ivie	
1 29 W							
1 44 W							

Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
	Fri July 17-18/53		2nd	pm	Hd + Wn	Flexure	test				
T112 20289T1	to duplicate #	20220	29 55	I-12	old E 103a O	008				1	
	" " #	20212	5 00	"	"						
T113 20289T2	Same as above.										

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	Spec. Temp +28							
		Dec ½, at HA 0 06 E comp 4S, at HA 0 24 W 4S						
		" 3½, " " 0 24 W, " ", " " 0 54 W "						developed (too hot)
		" 6½ " " 2 07 W " " " " 2 57 W "						
		" 9½ " " 2 57 W " " " " 3 47 W "						= focus

Date Fri July 17-18, 1953 Observer Hd Wm -Bk Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
20290	μ Herc	17 42.5	27 47	12	E103aO	908	30.2	22 56	22 58	4	0 38.5 W
								22 58 30	23 03 30		0 44 W
								23 05 30	23 08 45		0 49 W
20291	ζ Dra	17 54.3	51 30	"	"	"		23 15 55	23 16 20	2	0 46 W
								23 18 00	23 19 00		0 49 W
								23 20 00	23 20 10		0 50 W
20292	β Dct	18 41.9	−4 51	"	"	"	30.5	23 29 00	23 32 00	1.4	
								23 33	23 39		
								23 40	23 49		
20293	θ Lyr	19 12.9	37 57	"	"	"	30.7	23 57	00 03	2	
								00 03 30	00 12 00		
								00 13 00	00 23 00		
20294	16 Cyg (Pace)	19 39.2	50 18	"	"	"	30.4	00 33	00 [illegible]	4	
								00 59	01 [illegible]		
								01 12	01 [illegible]		

Dome Temp. 80 F

Focus 12.9 [illegible]

Dome Temp. 76° F

Transparency Conditions poor

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	38·5 W		2	4.3	G5 IV	8	Set 1 Stdlum clouds	
	44 W					—	" 5 clouds	
	49 W					—	" 9 clear	
	46 W		2	3.6	K5 III	8	" 1 " clear	
	49 W					—	" 5 "	
	50 W					—	" 9 "	
			2	5.1	G5 II	8	" 1 " haze	
		−4 50				—	" 5 " + clouds	
	W 29m					—	" 9 clouds	
				5.5	K0 II	8	" 1 " much cloud	
		+38 23				—	" 5 " "	
	W 33m					—	" 9 " "	
		+50 04	1	6.9	G2 V	4-4	" 1 " "	
						—	" 5 cirri	
	W 42 W					—	9	

Date Fri-Sat July 17-18, 1953 Observer Cout. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
20095	61 Cyg A	21 02.4	+38 13	I 12	E 103a-a-O	.008	30°8	02 14	02 24	2
								02 24	02 44	
								02 44	03 14	
20096	ξ Cyg	21 08.7	+39 44	"	"	"		03 19	08 20	4
								03 22	03 24	
								03 25	03 29	
20097	HD. 206155 ξ ξ Peg	21 35.1	+13 44		"	"	30°8	03 41	04 03	2
	Focus Test 0.7 ft.									

* — also in the box # 20289Tz

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Ending Time U.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
		+35° 30	1	G8.	K5 V	8	Sel 1		
						—	5		
	3 4 UT					—	9		
			1			2	1		
						—	5		
	4 2 UT					—	2		
	5 2 UT	+05° 56	0		A0	2-2-2			
						4/3	8		

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For July 18: Rain & had 25 visitors L-Hd-Ch-Gz.

Date Sun-Mon July 18/20 1953 Observer RK - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
L0194	HD 157294	17 17.2	+26 04	I 2	E103-a-D	Obj .009	57.0	11 25	11 17	4
	Focus Test	57 HD.								

Dome Temp.
Focus
Dome Temp.
Hour Angle End

Dome Temp. [illegible]
Focus [illegible]
Dome Temp. 70

Transparency Conditions [illegible]

[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	weak
						[illegible]	[illegible]	
							[illegible]	
							[illegible]	
							[illegible]	

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Date Mon Tues, July 20-21/53 Observer Ltd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20299	31 Com	12 46.8	+28 05	I-12	Σ10-0	008	+28.0	20 33	Exp 30 S	1
	"	"	"	"	"	"		20 34	20 35	
	"	"	"	"	"	"		20 35 30	20 37	
	"	"	"	"	"	"		20 37 45	20 40 45	
	"	"	"	"	"	"		20 41 15	20 45 15	
	"	"	"	"	"	"		20 46 15 22	20 51 15 42	
20300	5 Boc A	14 46.8	+19 31	"	"	"		21 00	21 00 30	5
								21 01 15	21 01 15	
								21 02 15	21 03 15	
								21 03 20	21 04 50	
20301	HD 142418	15 49.4	29 46	"	"	"	+28.0	21 12	22 08 45	4
20302	θ Lyr	19 12 9	39 37	"	"	"	+28.0	22 13 12	22 13 25	1
								22 14 18	22 15 39	
								22 15 45	22 16 43	
								22 16	22 18	

Dome Temp. 80 F

Focus 12.945

Dome Temp.

Transparency Conditions Good

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Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
		27 49	1	5.7	G_0 III	-	Set 0	Std Lum.	fine
			1			-	2		
			1			-	4		
			1			-	6		
	32 W		1			-	8		
			1		G_4 V	-	10		
			1			-	Set 0	"	fine
			1			-	3		
			1			-	7		
	52 W	19 17	1			-	10		
	52 W	29 36	1	8.82	K_0 II	2-2-2	Set 2	A.G. Prog	fine
					K_0 II		Set 0	Std Lum	
							3		
							7		
	20 E						10		

Date 2 men found [illegible] July 20 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20303	α Lyr	18 35.6	+37 47	1-12"	103a O	008	27.9	22 23 15	22 23 45	2
								22 24 10	22 25 00	
								22 25 15	22 26 28	
								22 26 05	22 26 54	
								22 26 13	22 28 43	
20304	σ Lyr	18 32.6	+39 29	"	"	"		22 38 22	22 38 16	1
								22 39 41	22 40 51	
								22 40 17	22 42 17	
								22 42	22 44	
20305	HD. 184150	19 28.0	29 59	"	"	"	+27.9	22 51	23 41	4
20306	61 Cyg A	21 02.4	38 15	"	"	"	+26.0	23 45 35	23 47 30	1
								23 48 31	23 51 37	
								23 51 01	23 56 11	
								23 57 04	00 04 12	
20307	ξ Cyg	21 28.7	29 49	"	"		+28.0	00 04 45	00 07 00	2
								00 07 37	00 10 25	
								00 10 31	00 11 21	

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 8				5.0	G_2 II		Set 0 Lt Lum	fair
2 11							3	
2 14							7	
2 17	32 E						10	
2 [illegible]				5.8	K_0 I		Set 0 "	good
2 [illegible]							3	
2 [illegible]							7	
2 [illegible]	1 12 E	+69 33					10	
11 [illegible]	0 13E	-30 04	1	8.44	K_2	2-2.2	Set 8 A.G. Big Haze	good
[illegible]			1'	6.8	K_2 I		Set 0 Lt Lum Big Haze Bubbles on emulsion	
[illegible]							3	
[illegible]							7	
[illegible]	1 24 E						10	
[illegible]			1	4.4	G_4 II		Set 0 "	
[illegible]							3	
[illegible]	22 E						7	
							10	

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Date Mon.-Tues July 20-21/53 Observer H & H Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
20308	ε Peg	21 39.3	+9 25	1-12½	103a-O	0.08	28.0	00 18	00 1[illegible]	4	
								00 19 47	00 20		
								00 20 45	00 21		
								00 21 51	00 22		
20309	HR 8374	21 53.8	+61 18	1-12½	"	"	28.0	00 30	00 45	1	
20310	HR 8432	22 02.5	+56 37								
20311	χ Peg	00 [illegible]	+13 39								

ome Temp. 73°

ocus

ome Temp.

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			1	3.5	$K_2 I_b$		Lt 0 Std Lum	med
							3	
							7	
							10	
	42.5 E							
			1	7.4	$G_8 I_b$		Lt 0 "	med
							3	
							7	
			c	6.7	K, I		0	good
							3	
							7	
								med

Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
30818	δ Aql	19 24 40	+3 01 7	Tel	[illegible]	[illegible]	[illegible]	8 54	9 16	1	
								9 27	9 38		
							36°	9 51	10 15		
"								11 39	12 MA		

Dome Temp.
Focus.....
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		0'	4.6	K. III		0 Sw L.	Exc.
						3	
						7	
W4E						10 H.A. = +6 L.H.	
						0	
						P.H # 1, 2, 4 Guided Exp. 20.	
						# 3 Lucky Exposed.	

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Date [illegible] Observer PMC - MD Julian Day 2434580

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
[illegible]	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 15	[illegible]	[illegible]
20316	HD 189894	19 57 2	+26 54	"	"	"	+29.3	00 26	00 46	"	[illegible]
20317	HD 190885	20 02 0	+27 51	"	"	"	+29.3	00 49	01 25	4	[illegible]
20318	AG 11036 South, following	20 10.6	+26 29	"	"	"	+29.3	01 29	02 05	"	[illegible]
20319	AG 10538	20 01.8	+29 26	"	"	"	+29.2	02 10	03 26	1	[illegible]
20320	HD 212943	22 22.8	+04 12	"	"	"		03 40 45s	03 41	2	
	"	"	"	"	"	"		03 42 1m	03 45		
	"	"	"	"	"	"		03 44 2m	03 46		[illegible]
[illegible]	E E Peg.	21 35 1	+03 44	"	"	"		03 57 3m	04 03	4	
	"	"	"	"	"	"		04 04 3m	04 06		[illegible]
	Focus Test	O.T.E.					+29.1				

Dome Temp.
Focus
Dome Temp.

Dome Temp. 76

Focus 12·945

Dome Temp. +71° F.

Transparency Conditions Some haze + wind.

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 08 W	25 35	0	[illegible]	K2	2-2-2	AB 25 set 1 flexure	1. wk.
0 04 E	27 03	1	8·93	K5	2-2-2	" set 9	fine
0 04 W	26 22	1-0	8·57	K0	2-2-2	" set 1	fine
0 27 W	+27 03	2½	8·23	K2	2-2-2	" set 8	good
1 01 W	+27 58	2¾	8·96	K5	2-2-2	" Set 2.	good
1 33 W	+26 36	2½	8·93	G5	2-2-2	" Set 8	fine
3 03 W	+29 35	2'	9.44	G5	2-2-2	" Set 2. Loud crash at 2:27. I presumed it was a sector falling shut and therefore increased exposure/time. On checking at end of exposure I found all sectors solidly hooked	weak
		3	5·93	K0	6	Set Vel.	1. wk
		3	"	"	6	"	good
1 02 W		3	"	"	6	"	good
	+08 56	3	7·75	Ac	2-2-2	Set 2 PH II E 103	1. wk.
2 09 W		3 X	"	"	6	Set 1 PH II	too wk.
					4-3		
						July 22. -15·3° +24·0 +14·2	

Date Plumas July 23-24/53 Observer [illegible] Julian Day 2433582.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20322	HD 123612	14 03.6	24 47	I-12	E103aO	008	25.9	20 54	21 24	1	h m 3:6
20323	AG 6888	14 29.9	24 51	"	"	"	25.0	21 40	22 40	1	3
20324	HD 154719	19 30.7	28 56	"	"	"	25.1	22 51	23 41	2	3
20325	ε Pav	21 39.3	-7 25	"	"	"	[illegible]	23 47 24	23 47 54	4	
								23 48 20	23 49 10		
								23 50 30	23 51 5		
							25.8	23 52 35	23 54		
20326	AG 10151	19 31.7	30 10	"	"	"	[illegible]	00 04	[illegible]	1	
20327	[illegible]	19 51	[illegible]			"	25.7	[illegible]	[illegible]		2.10 W

Dome Temp.
Focus
Dome Temp.

Dome Temp. 66 F
Focus 12.945
Dome Temp. 69 F

note that all who recorded focus at all runs July 12-13 wrote 12.915!

Transparency Conditions Good

Correction listed for July 22 for 1 E was 1 min wrong when applied to Sid Electric clock.

Found slit in a curious state of closure!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
h m							
W 3 06	24 32	0	7.6	K2	2-4	Set 2 Hastily guided AG proc. checking other things 20 False start at setting 8 on this plate	Good
W 3 56	24 35	0	8.7	G0	2-2-2	AG proc. Flexure	Fine
E 4 m	29 01	0	8.51	K2	2-2-2	"	Fine
		0	3.5	K2Ib		Std Lum. Set 0	
		0				" 3 1/3	
		0				" 5 2/3	
1 59	9 38	0				" 10	
0 39 W	30 16	0	8.98	K0	2-2-2	A 2.5	Fine
2 10 W	29	0	8.92	K2	2-4	" 7 A	Good
				4 1/3		" 9 Much cloud Quite Windy.	
						P.H #2 Set 0	
						P.H #3 Hi Speed	
						July 21 -18.2 +10.16 +3.9 +0.3 +1.5 -11.5 -0.3	

Date Fri-Sat July 31/AUG 1 1953 Observer Ks - Mc Julian Day 2434583

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
[illegible]	HD 150102	16 32.1	+57 15	1½	E33-a-O	.2	[illegible]	[illegible]	01 34	0	
[illegible]	HD 170240	18 49.2	+65 15	"	"	"	[illegible]	[illegible]	22 30		
[illegible]	AG 9950	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	4	
[illegible]	HD 189687	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	00 33		
20332	HD 187614	19 45.8	+26 50	"	"	"	+21 C	00 41	00 52	1	
20333	AG 10837	20 01 8	+29 26	"	"	"	+20.8	01 CC	01 54	12	
20334	HD 193485	20 15 9	+27 06	"	"	"	+20.8	01 57	02 39	2	
20335	HD 195216	20 29.9	+27 31	"	"	"	+20.8	02 42	03 22	"	
20336	HD 198953	20 45.5	+25 24	"	"	"	+20-8	03 26	03 46	4	
20337	HD 206155 EE Pegasi	21 35 1	+08 49	"	"	"		03 52	03 62	2	
20338	HD 212943	22 22.8	+04 12	"	"	"		04 01	04 09	1	
	Focus Test	O-T-B					+20.8				

Dome Temp.
Focus
Dome Temp

Dome Temp. 61°F

Transparency Conditions good, hazy

Focus 12.975 Iread 12.942 -Mo

Dome Temp. +56°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
0 0 5[illegible]	17 [illegible]	0	[illegible]	MO	2-2-2	[illegible] 2	A 6.25	good
[illegible] E	25 17	0	[illegible]	[illegible]	2-2-2	8	"	hazy
[illegible]	[illegible]	0	[illegible]	KO	2-2-2	4	"	fair
0 31W	[illegible]	0-1	[illegible]	[illegible]	2-2-2	8	"	fair-hazy
0 57W	+26 57	2	7.44	G5	2-2-2	2	"	fair-hazy
1 43W	+29 35.5	1-2	8.84	G0	2-2-2	8	" [illegible]	fair
2 15W	+27 15	1-2	8.57	G5	2-2-2	2	" [illegible]	hazy
2 49W	+27 40	2	8.68	K5	2-2-2	8	"	good
2 54W	+25 34	2	7.66 ?	G5	2-2-2	2	"	fair
2 18W	+08 55	2	7.0 -7.5	A0	2-2-2	5	Baked [illegible]	fair-hazy
1 37.5W	+04 26	2	5.93	K0	3-3	2	[illegible]	fair
					4-3	9	PH #3 - Cramer Plate	fair

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Date Sat Sun July 25-26 1953 **Observer** Mo **Julian Day** 2434564

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20339	EE Peg	21 35.1	+08 44	1-17½	Hi Speed	0.008	+20.1	01 23	01 41	3	
20340	X Peg	00 09.4	+19 39	"	F:03 m	"		02 20 15	02 21 15	1	
	"	"	"	"	"	"		02 24 30	02 26 20	"	
	"	"	"	"	"	"		02 28	02 31	"	
	"	"	"	"	"	"	+20.1	02 33	02 37	"	3.5 E

Dome Temp.
Focus
Dome Temp.

Dome Temp. +6.5°

Focus 12.942

Dome Temp. +6.3°

Transparency Conditions

Sat-Sun July 25-26 S, L, Mo + Bk Heavy overcast occasional break. ca 180+ min. Albireo brief 10" + some + briefly Saturn with 4" + mr. Clouds blocking.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 00 W	+02 57	1-2	7.0 -1.5	A0	2-2-2	Set 2. Fortunately this cloud break lasted [illegible]	f
		2	6.2	M_2 III	"	" 2 : clouds 15^s before end	
		2	"	"		" 4 3/4 clear	
		2	"	"		" 7 1/2 clear	
1 38 E	+19 55	2	"	"		" 10 1/2 clear	
						3 PH. loaded - E 10 3rd C	
						NE SE NW SW S NE	
						July 27 -20.^{s}7 +36.^{s}8 -8.^{s}2 +1^m -45^s +14.^{s}4 -16.6	

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Date Mon., Tues. Jul. 27-28, 1953 Observer Mo We - Pk Julian Day 2434586

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20341	HD 120803	13h 46m.6	+25° 12′	I 12½	E 103a-O	0.008	+25°.1	20h 44m	21h 18m	3	
20342	HD 120895	13 47.2	+25 11	"	"	"	+25.0	21 20	22 36	3	
20343	HD 122031	20h 02.7	−15 43	"	"	0.016	+24.9	22 50	01 02	2	
20344	BD +40°4756	21 49.1	+41 30	"	"	"	+24.9	01 10	04 00	1	
20345	HD 208155	21 35.1	−28 44	"	"	.008	24.5	04 07	04 17	4	
	Focus - Eagle	C.T.R.									

Dome Temp.
Focus
Dome Temp.

Dome Temp. 70°F

Focus 12.941

Dome Temp. 62°F

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
h m 3 32½W	+24° 57′	1	8.05	K0	1½ - 2½	Set 2 AG [illegible] Flexure	[illegible]
4 50 W	+24 57	0+1	8.56	K0	1½ - 1½ - 1½	" 8 "	[illegible]
05 55 W	− 15 35	0	7.4	G8 V	1 - 1 - 1	Set 2. Some [illegible]	[illegible]
06 13 W	+ 04 45	1	9.9	B2 V	1 - 1 - 1	2 —"—	[illegible]
06 44 W	+ 09 55	1	7.5	A0	1 - 2 - 2	1 EE Fm	[illegible]
					4/5	9	
						[illegible]	
						[illegible]	

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Date Thurs July 30-31/53 Observer Hd – Pic Julian Day 2434589

Dome Temp.
Focus 7
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20346	HD184150	19 28.0	29 59	1-12	E103a0	008	26.9	Elect. Cl. 21 52	Elect. Cl. 22 58	2	C IIE
20347	AG 10154	19 31.9	+26 16	"	"	4	26.5	Elect. Cl. 23 24	00 44	"	
20348	HD [illegible]	20 07.3	+22 52	"	"	"	26.5	00 45	01 27	"	
20349	HD 184650	20 30.3	+20 51	"	"	"	26.4	01 25	02 05	"	
20350	HD 185014	20 52.4	+16 26	"	"	"	26.3	02 30	03 04	"	
20351	HD 30363	04 41.8	+43 26	"	"	"	26.5	03 16	04 00	"	
20352	HD 206155	21 35.1	+08 44	"	"	"	26.6	04 15	04 45	"	
	Focus test	DTB									

Dome Temp.....

Focus 76F

Dome Temp.....

Transparency Conditions Cloudy earlier, poor, ... later

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12E	+30 05	6-1	8.44	K2	2-2-2	Set 2. AG 25	fair+
01-21	+26 41	2-1	8.93	K0	2-2-1	8 "	fair
01 58	+29 00	1-2	8.13	K2	2-2-2	4 "	fair+
02 00 UT	+30 31	1	8.81	K0	2-2-1	4	fair
02 54 UT	+17 00	1	8.52	F0	2-2-1	2 Bad values	fair
04 53E	+42 10	1	9.3	F0p	2-2-1	1 Poor values, Cor.	fair
03 03 UT	-01 [illegible]	1	7.45	F0	2-1-1	2 ± 2 Pairs	fair
					4/3	9	Overexposed Terrible
						Pt. H. Dec. 2.43 Dec. dec. Sec. E.	
						July 31 -25° +44.1 -3.0 -.3m -1/4 -16	fair

[illegible]

Date Fri July 31 Aug 1/53 Observer L Julian Day 2434590

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20353	H.D. 182218	19 18.5	26 58	I-12½	E-103 AO	Set .008	+24.0	20 39	22 19	2	C 4E
20354	" 185289	19 33.3	26 08	"	"	"	+23.9	22 23	22 59	2	C 17E
20355	" 190630	20 00.8	30 14	"	"	"	+23.9	23 02	00 00	3	C 16W
	Focus Test				O 7 B						

Dome Temp. +70°F

Focus 12.941

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 42 E	27 04	0	8.91	K0	2-2-2	Set 2 A.G. 25 Light Clouds	fair
0 17 E	26 14	0	8.00	G5	2-2-2	Set 3 "	fair
0 16 W	30 22	0	8.72	K0	2-2-2	Set 2 " Clouds. More clouds Flexure	good
					4/3	Set 8 Star gone at 00.00	all night
						4 P.H.s loaded with E-10340	

Date Sun/Mon 1953 Aug 2/3 Observer Whw - KK Julian Day 2434592

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20 356	HD 15 12 56	$16^h\ 41.^m2$	+24° 46'	I-12.5	103a-O	0.002	+23.5°	$21^h\ 18^m$	$23^h\ 40^m$	1
20 357	HD 1916 5	[illegible]	[illegible]	"	"	"	[illegible]	23 59	01 41	
20 358	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	01 45	02 05	2
20 359	AS 11546	20 32 4	+19 50	"	"	"	[illegible]	02 12	02 [illegible]	
20 360	HD 20252	04 4[illegible]	+0[illegible]	"	"	"	[illegible]	04 06	04 30	3
	Tore[illegible]	[illegible]								

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 66°
Focus 12 942
Dome Temp.

Sat-Sun Aug 1-2. We & Bx Heavy overcast. 14 visitors. Clear, followed by clearing of telescope.

Transparency Conditions Clouds at beginning, Starting of exposure in Comp. Creek.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3h 25 W	+24° 27'	1-0	8.9	K2	2-2-2	16:25 64.2 New clouds soon after start. Hazy clouds of changing transparency dying the exp.	
2 01 W	+25 [illegible]	2	[illegible]	K [illegible]	2-2-2	[illegible]	
2 17 W	26 50	2	8.06	K0	2-2-2	[illegible]	
3 49 W	[illegible]	[illegible]	[illegible]	[illegible]	2-2-2	[illegible]	
3 46 E	43 11	2	[illegible]	[illegible]	2-2-2	[illegible]	
					1/2		

	NC	SC	NW	SW	SW	S	NE
Aug 4	-29.2 s	+31.7 s	-39.4 s	-.3 m	-3.8 s	-18.1 s	-9.0

Dust on mirror (timed at 10:00 P.M. Aug 4). Condensation in mirror tube, which must be dried up before [illegible] telescope. E.H.M.

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Set 8 5' north of given positions

Dome Temp. 1
Focus
Dome Temp. 1

Date Wed-Thurs Aug. 5-6 1953 **Observer** S-L-Mo-We **Julian Day** 2434595

Plate No.	Object	R.A. ~~1900~~ 1950	Declination ~~1900~~ 1950	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
								h m s	h m s		
20361	NGC 6838	19 51.3	+18 38	Newt.	E103-a-O			21 02 00	21 06 00	)	2 06 E
20362	6712	18 50.3	-08 47					21 10 30	21 18 30		0 53 E
		set	set					"	shutter closed		
20363	IC 1276	18 08.0	-07 08					21 22 50	21 23 50		
	"	"	"					shutter reopened			
								21 25 00	22 05 00		0 36 W
20364	NGC 7023	21 01.0	+68 00		E103-a-O	Emulsion No 492 333		22 47 35	23 27 35		0 53 E
20365	"	"	"		E103-a-E	489, 211		23 55 20	00 55 20		0 35 W
20366	"	"	"		E103-a-E	489, 211		01 02 45	01 12 45		0 52 W
20367	"	"	"		E103-a-C	492, 333		01 27 00	01 57 00		1 37 W
20368	"	"	"		E103a-O	492, 707		02 00 22	02 03 22		1 43 W
20369	"	"	"		E103a-O	492, 333		02 05 43	02 15 43		1 56 W
20370	"	"	"		E103a-O	492707		02 16 27	02 17 27		1 58 W
20371	"	"	"		E103-a-O	492, 333		03 15 50	03 35 50		3 17 W
20372	"	"	"		E103-a-O	492, 333		03 53 05	04 03 05		3 44 W
20373	"	"	"		E103-U	488, 835		04 05 14	04 17 30		3 59 W
20374	"	"	"		E103-a-O	492 704		04 21 43	04 21 53		4 02 W

Dome Temp. + 67° F

Focus

Dome Temp. + 60° F

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 26 00	2 06 E						Focused on β Ophiuchi	
21 16 30	0 53 E							
21 23 50							Automobile lights at beginning of exposure - shutter closed in time. Reopened when lights went out	
22 00	0 36½ W						H+S H mush depressed by lights on Yerkes ST across street Strong enough to cast hat shadow on platform at 10 p.m.	
21 27 55	0 53 E						Telescope turned over to E W. Focused on α Cephei.	
00 55 20	0 35 W		Filter - Red Plexiglass				Closed shutter for 1½ min. at 0h 17m because of train. Let 0h 24 for ½ min for auto lights	
01 12 45	0 52 W		Filter - Red Plexiglass					
01 57	1 37 W							
02 37 [illegible]	1 43 W						two times - 180° apart. normal spotting 2⅛" × 3¼" plate	
03 3 45	1 56 W							
03 17 27	1 58 W						normal spotting 2⅛" × 3¼" plate. changed position of plate holder by 180° on tube.	
03 35 50	3 17 W							
03 53 05	3 44 W						some intermittent clouds.	
04 [illegible]	3 59 W		Filter - Wratten 70-gelatin				clouds clouds	
04 21 55	4 03 W						normal spotting 2⅛ × 3¼ plate changed position of plate holder by 180° on tube (back to normal position)	

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Set 8 2'N of given positions

Dome Temp.
Focus
Dome Temp.

Date Thurs.-Fri. Aug. 6-7 1953 **Observer** S - Bk - Mo - We **Julian Day** 2434596

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20375	NGC 6838	19 51.3	+18 38	Newt	E103a-O			21 02 35	21 10 35	1	
	6712	18 50.3	-08 47								
20376	6366	17 25.1	-05 02					21 24 22	21 44 22		1.03W
20377	6838	19 51.3	+18 38					21 49 24	21 59 24		1.09E
20378	6426	17 42.4	+03 12					22 11 41	22 41 41		1.43W
20379	6712	18 50.3	-08 47					22 48 50	23 00 50		0.54W
20380	IC. 1276	18 08.0	-07 12					23 06 40	23 46 40		
20381	NGC 6717	18 52.1	-22 47					23 52 04	00 12 04	1	
20382	6712	18 50.3	-08 47					00 16 05	00 28 05		2.22W
20383	6838	19 51.3	+18 38					00 35 13	00 41 13		
20384	NGC 7023	21 01.0	+68 00		E103-a-C	Emulsion No. 492,333		01 10 43	01 48 15		1.32W
20385	"	"	"		E103-U	488,835		02 08 06	02 34 06		2.18W
20386	"	"	"		E103-a-C	492,707		02 35 12	02 35 27		2.19W

Dome Temp. + 68° F

Focus

Dome Temp. + 60° F

Transparency Conditions Poor

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 1 58 E						Focused on α Ophiuchi	
						Hopeless - clouds too heavy	
1 03 W						cluster poorly centred because of difficulty finding a guide star Much cloud	
1 09 E							
1 43 W						Closed shutter for 45s at 22:30 for auto lights.	
0 54 W						Focused on η Serpentis	
2 22 W							
2 03 W							
2 22 W						Focused on α Lyr. Poor C.E.	
1 33 W						Lowering Humid onto NEW	
1 32 W						Auto lights - closed shutter at 1:16 for 35s	
2 18 W		Filter - Wratten 70			gelatin	cloudy sky.	
2 19 W						normal spotting - twice	
						Aug 7 ME -12.3 SC -2.1 HRW +7.0 SRW +1.5m SW +18s S -23.9s ME -11.7s	

2½ × 3¼

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Set 8 4' N of given positions

Dome Temp.
Focus
Dome Temp.

Date Fri.-Sat. Aug. 7-8 1953 **Observer** S.-Pk.-Mo. **Julian Day** 2434597

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20387	NGC 6838	19 51.3	+18 38	Newt.	E103a C			21 28 26	21 34 26		
20388	6366	17 25.1	−05 02					21 40 02	22 00 02		22W
20389	6838	19 51.3	+18 38					22 55 48	23 03 48		0.0C
20390	6838	19 51.3	+18 38					23 20 28	23 28 28		0.24W

Dome Temp. + 69° F

Transparency Conditions ..... Poor .....

Focus .....

Dome Temp. .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3h 26		1 31 E						Focused on α Aquilae	
5 32		1 22 W						Clouds at 21 53	
1 11		0 00						Focus was poor	
1 11		0 24 W						Refocused on α Aquilae.	
								An almost [illegible] night	
								Sat Aug 8 – Heavy thunderstorms, disagreeable night. About 25 visitors. S & L showed Mirage films.	
								HC SC MTW STW SW S HF	
								Aug 10 −5.5s +2.3s +8.3 +.5m −38.5s −27.3s −6.3	

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Date Nov-Dec 1952 & Jan 1953 **Observer** [illegible] - Mo **Julian Day** 2434600

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20391	HD 14665	16 19.1	+14 59	T10	E103a-O	all .008	23.9	00 35	01 45	4	
20392	HD 206455	21 [illegible]	+05 [illegible]	"	"	"	[illegible]	01 35	[illegible]	1	
[illegible]	HD [illegible]	19 30.1	+59 40	"	"	"	[illegible]	02 12	[illegible]		
[illegible]	AG 9100	18 35.5	+26 26	"	"	"	[illegible]	[illegible]	[illegible]	2	
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	+23.9	04 45	05 41		
	HD 195273	20 25.2	+26 36					05 48	06 31	1	
20396	HD 195273	20 25.2	+26 36				+23.9	00 52	01 10	4	
20397	HD 197605	20 39.7	+27 06	"	"	"	+23.8	01 14	01 31		
20398	HD [illegible]	20 44.4	+28 26	"	"	"	+23.8	02 07	02 51	2	
20399	HD 230451	20 55.4	+26 06	"	"	"	+23.8	02 54	03 26		
20400	HD 206155 EE Pegasi	21 35.1	+08 44	"	"	"	+23.8	03 41	03 53	1	
20401	HD 9138	01 24.9	+05 38	"	"	"		03 59	04 03	3	
20402	HD 30353	04 41.8	+43 06	"	"	"	+23.9	04 18	04 36		
	Focus Test	C.T.E.									

Dome Temp. 70°F

Focus 12.2 m

Dome Temp. +62.5

Transparency Conditions good

Beautiful green arc across northern sky at 0h.- remained till dawn
Frequent Persieds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.			REMARKS	Quality
2 [illegible] W	[illegible]	0	[illegible]	[illegible]	2-2-2	"	2	Hazy	fair
2 35 E	[illegible]	1	7.75	[illegible]	2-2-2		2	[illegible]	good
0 49 W	[illegible]	1	7.23	[illegible]	2-2-2	"	8	Hazy	good
2 [illegible] W	[illegible]	1	8.26	[illegible]	2-2-2	"	2	"	fair
2 36 W	+28 36	1-2	[illegible]	[illegible]	2-2-2	"	[illegible]	"	fair
					2-	"	2	" Superposed on #20392	
1 42 W	+26 47	2+	8.09	K0	2-2-2	"	2	"	fair
2 12 W	+27 16	2-	8.54	K0	2-2-2	"	3	"	fair
3 04 W	+28 35	1-	8.65	G5	2-2-2	"	2	"	fair
3 36 W	+26 16	1-2	8.57	K5	2-2-2	"	8	"	fair
3 16 W	+08 57	0-1	7.0 -7.5	Ac	2-2-2		8	Ecl Bin.	good
0 24 E	+05 52	2-	6.19	K4	2-2-2		2	Std Vel	fair
3 09 E	+43 11	1½	8.3	Gop	2-2-2		7	Bidelman's Star	fair
					+-3		10½		

Time lost re-hooking a fallen sector.

2 p.h. tests

Date Tues.-Wed., Aug 11-12, 1953 **Observer** O - Mo **Julian Day** 24 34 6 8.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20403	HD 149474	16 30.0	+25 41	12½ E	103a-O	008	26.1	20 17	21 42	4
20404	HD 161197	17 39.1	+24 50	"	"	"	25.9	21 46	22 46	4
20405	EE Peg	21 35.1	+08 44.	"	"	"	26.0	22 55	23 10	3
20406	HD 187460	19 45.0	+29 38	"	"	"	+26.0	23 18	00 24	1
20407	BD +25° 4256 ~~HD 194403~~	20 25.2 20 20.3	+25 38 +25 36	"	"	"	+26.0	00 34	01 10	"
20408	HD 224383	23 52.3	-10 12	"	"	0.006		01 29	01 33	
	"	"	"	"	"	0.016	+25.9	01 36	02 21	"
20409	HD 1368 HD 206155	00 12.7	-00 11	"	"	0.016	+26.0	02 25	03 35	1
20410	EE Peg.	21 35.1	+08 44	"	"	0.008	+26.0	03 49	04 01	3
20411	HD ~~9518~~ 9138	01 24.9	+05 35	"	"	"		04 08 30	04 11 30	4
	"	"	"	"	"	"	+25.8	04 13 00	04 17 00	"
	Focus Test	6 T P					+25.8			"

Dome Temp.
Focus
Dome Temp.

Hour Angle End

Dome Temp. 72°F

Focus 12.942

Dome Temp. ± 62°F

Transparency Conditions [illegible] NW.

Magnificent auroral arc across northern sky - not so bright as last night + remained till dawn.
Numerous Persieds - 3 within 10 sec at 3 21

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
2 13 W	+25 34	0	8.84	K2	2-2-2	[illegible]	AK 25	Good
2 08 W	+24 48	1	8.68	G5	2-2-2	" 8	"	fair
1 24 E	[illegible] 57	1	7.6-7.5	A0	3-	" 2	Ecl Bin [illegible]	fair
1 40 W	+29 44	1-2	7.98	K0	2-2-2	" 2	AG 25	fair
1 46 W	+25 49	1-2	9.2 ~~8.72~~	~~K2~~	2-2-2	" 8	" Wrong star; set R.A at 20 27.5	Good
	-09 55	1+	8.5	G2V	2-4	" 2	N.R. Hi Vel. Much trouble with dec. buttons	Good
1 31 E	-09 55	1+	"	"	2-2-2	" 6	" " Comp. too ~~str~~	good
0 24 W	+00 07	1-2	7.4	G0V	2-2-2	" 10½	" " Comp too ~~str~~	fair
3 28 W	+08 57	C	7.0 -7.5	A0	2-2-2	8	Ecl. Bin. poorly guided	poor
		2	6.19	K4	3-3	2	Sld Vel	poor
0 06 E	+05 53	2	"	"	2-2-2	6	" " [illegible]	poor
						10½	1 ph- loaded.	poor

Angle: MC -7.3s; S C +5.9s; M SW +1.7s; S SW +.4m; S -29.9s; S W +5s; M E -2.2s

Date Thurs-Fri Aug 13/14 1953 Observer PK - Mo Julian Day 2434603

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20414	HD 187140	19 41.1	+29 17	114"	E 103a-0	.002	27.7	21 42	22 30	1
20415	HD 187460	19 45.0	+29 38	"	"	"	+27.3	00 35	01 39	2
20416	HD 196940	20 35.4	+25 57	"	"	"	+27.3	01 42	02 30	3
20417	AG 11970 HD 206135	20 54.2	+30 14	"	"	"	+27.3	02 31	04 08	4
20418	E. Fegasi	21 35.1	+08 44	"	"	"	+27.3	04 17	04 29	4
20419	HD 9138	01 29.9	+05 35	"	"	"		04 34	04 38	4
	Focus Test	O.T.P.								

Dome Temp. 74°F

Focus 15 cm

Dome Temp. 76.5°F

Transparency Conditions Hazy, equiv. to low cirrus. Seeing poor.

check with Franklin-Adams chart showed slight error in Argelander's chart

Ending Time E.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
	2 25 W	+29 12	1	8.84	K2	2-2-2			fair
	2 30 W	+27 29	1-2	8.79	K2	2-2-2	6	-11-	fair
	2 34 W	+29 35	1	8.89	K0	2-2-2	2	"	fair
	3 04 W	+29 45	1	8.98	K0	2-2-2	8	"	fair
	3 04 W	+26 08	1	8.72	K0	2-2-2	2	"	good
	4 24 W	+30 25	0-1	8.97	G2	2-2-2	8	" Flexure	good
	4 04 W	+08 57	1½	7.0 -7.5	A0	2-2-2	2	A poor guide	good
	0 23 W	+05 55	2	6.19	K4	3-3	7	Std. Vol.	good
						4-3	12½	3 plt. loaded.	fair

	ME	SC	MTW	STW	SW	S	M.E.
Aug. 14	-9.0 s	+9.4 s	-5.2 s	+.2 m	-14 s	-32.1 s	+11.2 s

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Date Fri/Sa, 1953 Aug 14/15 Observer Wm Julian Day 2434604

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20420	HD 150431	$16^h 35.^m9$	+25° 44'	I-12.5	103a O	0.002"	72°.9	$20^h 10^m$	$21^h 10$	1
	Focus test	O.T.B								

Dome Temp.
Focus
Dome Temp.
Hour Angle End

Dome Temp. 75° F

Focus 12.942

Dome Temp. 75° F

Transparency Conditions clouds in NW, hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$1^h 47^m$ W	+25° 32'	1	2 2	K0	2-2-2	AG 25 Set 2 Lightning in NW. At end of exposure clouds cover the whole sky in a very short time. Thunder, lots of Nats	fine
					4-2.5	Set 8	all right

Col. 2 and 3 Graded

	MC	SC	NNW	SSW	S	SW	ME
Aug 19	$-14^s.3$	$+17^s.4$	$-45^s.3$	$-.5^m$	$-39^s.4$	-34^s	$-7^s.2$

Date Sat.-Sun. Aug. 15-16 1953 **Observer** We.-Mo **Julian Day** 2434.605

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20421	AG 9236	18 43.3	+28 19	I-12½	E103-aO	0.008	+23.2	22 19	23 29	2
20422	BD+17°4708	22 06.7	+17 36	"	"	0.016	+23.2 +23.1	23 42	Closed plate h 44 at 4 06 Effective ending at 3 00	2
20423	HD 8779	01 21.4	-00 55	"	"	0.016		04 15 20	04 20 30	2
	Focus Test	O.T.B				0.016	+23.1			"

Dome Temp.
Focus 12.7
Dome Temp.

Hour Angle End

Dome Temp.....
Focus 12.932 (focus just before start of shooting) 24"
Dome Temp. + 63° F.

Transparency Conditions.....
About 300 visitors shown Ψ 3 nights with 74" and various double stars with 4" and Ring and Clouds (Pleiades by courtesy of R.P.S.). We & Mo.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h 03m W	+28° 20′	0	8.61	G_0	2-2-2	Set 8 AG 25	fair
at 4:06						False start at set 2 - one min. 7 sec. expos. Prisms were at the very south for focusing.	
3 16 W	+17 50 ??	0	(7.8)	F_2	1^5-2-1	Clouds 3:00 - no star	I str
						Star visible no more ~~than~~ three min. after 3:00.	
0 16 W	-00 39	1½	7.49	K_0	1-2	7 Std. Vel.	fair
					3-2	10½	all right
						4 ph. loaded.	

Date Sun-Mon Aug 16-17 1953 **Observer** O - Mo **Julian Day** 2434606

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B	Hour Angle End
20424	HD 154760	17 02.3	+26 38	1-12½	103a O	Sat .008	+22.4	20 03	20 48	4	1 51 W
20425	HD 151369	16 41.9 ~~43.9~~	+26 13	"	"	"	"	20 54	21 ~~20~~ 49	4	2 28 W
20426	HD 150799	16 38.2	+25 38	"	"	"	+22.3	21 55	23 20	1	4 43 W
20427	HD 195216	20 24.9	+27 31	"	"	"	"	23 24	00 08	1	1 04 E
20428	HD 194525	20 21.0	+36 15	"	"	"	+22.0	00 11	00 43	2	43 W
20429	AG 11823	20 46.3	+28 20	"	"	"	+22.0	00 47	01 39	"	2 14 W
20430	BD + 30°4417 ~~AG 124 26~~	18.5 ~~21 18.3~~	16 ~~+30 +5~~	"	"	"	+22.0	01 45	02 51	3	2 50 W
20431	AG 13194	22 03.6	+26 ~~3~~	"	"	"	+22.0	02 57	04 01	"	3 19 W
20432	HD 9138	01 24.9	+05 38	"	"	"		04 07 30	04 10 30	4	0 07 E
20433	HD 30353	04 41.8	+43 06	"	"	"		04 22	04 46	"	2 33 E
	Focus Test	0.7.8					+22.0			"	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 67°F

Focus 12.932

Dome Temp. +5.8°F

Transparency Conditions Good

Ending Time E.S.T. P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
	1h 07m W	+26 34	1	8.63	G5	2-2-2	Set 2	AG 25	fine
21	2 28 W	+26 07	1	8.84	G5	2-2-2	" 8	"	fine
	4 03 W	+25 31	1	8 5(?)	G0	2-2-2	Set 2	" Through Glass	Full
	0 04 W	+27 40	2-	8.68	K5	2-2-2	" 8	" Through Glass	Full
	1 43 W	+30 25	2-	8.42	G5	2-2-2	" 2	"	fine
	2 14 W	+28 30	1-2	8.92	K0	2-2-2	" 8	"	fine
	2 54 W	+30 29	2+	8.91	K0	2-2-2	" 2	"	Full
	3 19 W	+26 46	1-2	8.96	G5	2-2-2	" 8	"	Full
	0 07 W	+05 53	2	6.19	K4	3-3	2	Std. Yel.	Good
	2 35 E	+43 12	2	8.3	G0p	2-2-2	7	Bidelman's Star	Good
						4-3	10 1/2	3 ph loaded.	Good

	Mc	SC	MW	SW	SW	S	ME
Aug 17	-12.3 s	+14.1 s	-41.5 s	-.3 m	-14 s	-36.7 s	-6 s

Date Mon-Tue 17/18 Aug, 1953 Observer Pk - Hv Julian Day 2434.607

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.P	Hour Angle End
20 434	H.D. 124012	14 05 [illegible]	+28 05	12½	EK3-a-O	.008	20.3	20 07	21 17	1	
20 435	H.D. 151[illegible]	16 38.[illegible]	+25 38	"	"	"	19.8	21 23	22 53		
20 436	[illegible]	21 [illegible]	+00 34	"	"	.016	19.5	23 [illegible]	00 [illegible]	2	
20 437	BD+17° 4708	22 06.7	17 36	"	"	"	19.9	0021	0051	2	
20 438	HD 3765	00 35.3	39 40	"	"	"	19.6	0300	0330	3	
20 439	"	"	"	"	"	.008	19.8	0332	0430	3	
	Jam	Jet	Orb								

Dome Temp.
Focus
Dome Temp.

Dome Temp. 62°F

Transparency Conditions Good

Focus 12.032

Dome Temp. 54°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
	4 25 E	27 51	0	8.8	35	2-2-2	vel 2	4 @ 45 E	Flexure
	3 29 E	25 30	0-1	8.5	G0	2-2-2	" 8	"	
	00 10 W	00 46	0-1	8.9	G2V	1-1-1	" 2	Cirrus Haze	
	02 10 W	17 51	0-1	9.3-10.0	F2	1-1-1	" 8	" "	
	2 N	39 57	0	8.52	K5	1-1-1	" 2	Std Vel. 020° Clouds NE, E, SE, S.	
	2 12 W		0	"	"	2-2-2	" 7	" "	
						4/3	9	4 R.H Cooled	

123

Date Tue-Wed, Aug 18/19, 1953 Observer Wm - Hs Julian Day 2434608

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
20 440	HD 191069	20h02m.9	−16° 0′	I-12.5	103aO	0.016	+20.5°	20h 6m	21h36m	1	0h54m E
20 441	HD 19827 P3	20 04.1	−9 01	"	"	"	"	21h 46	23h36m	"	0h4W
20 442	AG 9236	18h 43.3	+28° 19	"	"	0.008	+20.4	23 44	0016	2	0h5m W
	focus		Test 073.								

Dome Temp.
Focus
Dome Temp.

Dome Temp. 66°F

Focus 12.977

Dome Temp.

Transparency Conditions Good, a few scattered clouds in SE near horizon and W, disappearing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h59m E	−15° 52′	0	8.8	G5V	1-1-1	Set 2 Ro. High Vel.	
0h20 W	−8 57′	0	9.0	G2V	1-1-1	Set 8 " " "	
0302W	+28 23	1	8.6	G0	2-4	Set 2 AG-25 0001 Clouds. Star Gone	
					4/3	" 9. 0030 Solid	

125

Date Wed-Thur, Aug 19-20, 1953 Observer O - Mo Julian Day 2434609

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20443	HD 155839	17 09.0	+25 07	I-12.5	E103a-O	Set .008	+21.0	20 04	20 32	3	0° 55' W
20444	HD 192031	20 07.7	-15 43	"	"	Set .016	"	20 48	21 44	4	0 38 W
20445	EE Peg	21 35.1	+08 44	"	"	Set .008	+20.7	21 52	22 04	1	0 5 E
20446	HD 195216	20 24.9	+27 31	"	"	"	"	23 18	00 06	3	1 12 E
20447	HD 3567	00 33.5	-08 51	"	"	0.016		00 29	Star off slit at 01 11 approx. Closed plate at 01 29	4	1 32 E
	Focus Test	O.T.E				0.016	+20.8				

Dome Temp.
Focus 12.9
Dome Temp.

Dome Temp. 66°F

Focus 12.933

Dome Temp. + 57°F

Transparency Conditions Thin clouds scattered

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 55m W	+25 03	1-2	8.19	K5	2-2-2	at 2 AG-25	fair
0 08 W	-15 36	0-1	9.4	G8	1-1-1	" 2 Rom Hi-Vel.	fair
0 58 E	+08 55	1	7.075	A0	3-3	" 2 , Spec Bin	fair
1 12 W at 01 29	+27 39	1-2	8.68	K5	2-2-2	" 8 AG-25	l. cirrus
1 32 E	- 08 34	1½	9.7	F4V	1-2	" 8 N.R Hi Vel. set on HD 11397 but plate at bottom of shutter opening cut off finder	good
					4-3	" 10½	

3 p.H. loaded.

The slow motion controls do not work
A wire must be broken in the cable near the box. The buttons worked for a while when I gave the cable a certain twist but finally even this would do nothing.

Scattered clouds in south and east.

July 20 + 5.2s mpe STW 0m

Date Thurs-Fri Aug 20/21 1953 Observer Fox – Hr Julian Day 2434610

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20 4448	4h 57m 94	17 17.2	+26 04	I 61/2	E 103-a-O	.005	22.0	20 02	21 12	2	
20 4449	4h 42m 01	18 16.1	+30 22	"	"	"	21.8	21 14	22 38		
20 4450	4h 15m 20	19 54.2	+33 40	"	"	"	21.4	22 45	23 79	3	
20 4451	18 37 6	9 56.7	+29 23	"	"	"	21.7	23 23	23 55		
20 4452	18 44 63	20 46.3	+25 34	"	"	"	21.8	00 00	01 10	4	
20 4453	208276	21 50.1	29 47	"	"	"	21.8	01 16	02 12		
20 4454	E E Reg.	21 35.1	+08 44	"	"	"	21.4	02 19	02 33	2	
20 4455	H.D. 3765	00 35.3	+39 40	"	"		21.6	02 44	03 44	1	
20 4456	" 11095	01 44.0	43 48	"	"	"	21.7	03 57	04 33		
	Fox	Fox	+ O								

Dome Temp. 66° F

Focus 19.32

Dome Temp. 59.5

Transparency Conditions Hazy to very Hazy & dark

128

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 31 W	26 10	0	8.94	K0	2-2-2	pel 2 ABC somewhat fogged	l weak
1 28 W	26 27	0-1	9.06	K2	2-2-2	8 "	l weak
1 02 W	28 27	1	9.16	A5	2-2-2	2 "	fine
1 25 W	29 41	1-2	8.40	A5	2-2-2	8 "	fine
0 27 W	25 46	1-0	8.72	K5	2-2-2	" 2 "	weak
0 09 W	29 59	0-1	8.63	K0	2-2-2	" 8 "	good
0 35 W	08 55	0	7.0-7.5	A0	2-2-2	" 5 Ecl. Bin. BK.	l weak
0 04 5 W	39 56	1	8.5	K5	2-2-2	" 2 Std. Vel.	strong
0 02.5 W	41 02.5	0-1	8.0	A0	2-2-2	" 5 K.A. 21 Looks faint Hazy	fine
					4/3	" 9	

1 P.H. Loaded.

Date Fri-Sat. Aug. 21/22, 1953 Observer Mc – Hr Julian Day 2434611

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
20457	AC 10244	1h 02.0	-28 42	1.5 m	E103-a-O	.005	22.0	20 28	21 20	3
20458	40 19810	20 02.6	+25 24	"	"	"	21.9	21 24	22 04	.
20459	" 19945	20 04.8	+29 24	"	"	"	21.8	22 09	23 01	4
20460	AC 11579	20 35.2	-26 17	"	"	"	21.6	23 05	23 45	.
20461	40 19829	20 35.3	+27 44	"	"	"	21.8	23 48	00 38	1
20462	19720	20 35.9	25 41	"	"	"	21.8	00 46	01 36	
	Test	Test		O.T.S.						

Dome Temp.
Focus
Dome Temp.

Dome Temp. 65°F

Focus 12.933

Dome Temp. 61°F

Transparency Conditions clouds scattered ... 130

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 01 E	25 26	2	8.97	G5	2-2-2	Act 2 AC 25	
0 18 E	25 21	2-1	9.44	K0	2-2-2	" 6 "	
0 36 E	25 30	2-1	9.25	K5	2-2-2	" 2 " Flexure	
0 49 W	26 26	2	8.77	K0	2-2-2	" 8 "	
01 14 W	27 54	(2) 0 *	9.58	K5	2-2-0 ‡	" 2 " * 0008 ‡ Faint	
02 42 W	25 52	1	8.51	G0	2-2-2	" 7 " 0125 Cloud N.W.	
					4/3	" 9 0135 Star Gone	
						Avg 31 ± 1.63 +21.3 +2.7	

131

Cr
Gz

Date Sat-Sun Aug 22-23, 1953 **Observer** O - Mo **Julian Day** 2434612

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle Intl
20463	HD 188258	19 49.2	+27 50	I-125	E103a-O	Sit .008	+22.9	21 53	21 59	1	
	"	"	"	"	"	"	"	22 00	22 14	1	0h 10m W
20464	HD 188566	19 50.7	+25 04	"	"	"	22.8	22 17	22 35	4	0 29 W
20465	AG 10838	20 01.8	+29 26	"	"	"	"	22 40	23 24	4	1 37 W
20466	AG 10837	20 01.8	+29 26	"	"	"	+22.8	23 26	00 10	2	1 54 W
20467	HD 193576	20 05.8	+28 37	"	"	"	+22.8	00 15	00 45	2	1 45 W
20468	AG 11990	20 55.7	+28 53	"	"	"	+22.7	00 48	01 30	4	2 20 W
20469	HD 200679 BD +30°4417	20 59.8 18.5	+25 59 16	"	"	"	+22.7	01 34	02 04	4	2 50 W
20470	~~AG 12426~~	~~21 18.3~~	~~+30 11~~	"	"	"	+22.7	02 10	03 18	2	3 45 W
20471	HD 8779	01 21.4	-00 55	"	"	"	+22.7	03 30	03 36	2	0 00
20472	HD 14147	02 12.2	+18 00	"	"	"	+22.7	03 58	04 03	4	0 29 E
	Focus Test	O.T.B.					+22.7			4	

Dome Temp. 66° F
Focus 2933
Dome Temp. 62° F

Transparency Conditions Somewhat hazy, clouds [illegible]

About 150 visible on M13, ε Cyg, O, Mo, Cr, Gz

132

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
		2	7.79	K_2	2-	Set 2	Plunger half-way out N. Roman Box of AG-25 plates	—
0h 10m W	+27 58	2-3	"	"	2-2-	" 8	" "	fair
0 29 W	+25 11	3	8.20	K2	2-2-2	Set 2	" "	weak
1 07 W	+29 37	3	9.44	G3	2-2-2	" 8	" "	too weak
1 54 W	+29 37	2-3	8.84	G0	2-2-2	Set 2	" "	l weak
1 45 W	+28 47	3	8.88	K_0	2-2-2	" 8	" " Clouds - no star 01:12 - 01 22	l weak
2 20 W	+29 03	3	8.95	G_0	2-2-2	" 2	" "	l weak
2 50 W	+26 09	3	8.82	K_2	2-2-2	" 8	" "	l weak
3 45 W	+30 27	3	8.91	K_0	2-2-2	" 2	" Clouds 02 43 star barely visible. Intermittent clouds till 03 13	too weak
0 00	-00 40	3	7.49	K_0	2-2-2	" 8	Std. Vel. "	weak
0 24 E	+18 13	3	7.68	F_0	2-2-2	" 2	KA. 70 Completely overcast at 4:05	l weak
					9-3	" 8	2 pH loaded.	

Date Sun-Mon. 1952 Aug 23/24 Observer Lee - Hs Julian Day 2434613

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20473	H.D. 170951	18 21.0	+25 06	I 12½	E103a-O	.002	26.0	19 58	20 51	1	
20474	19943	19 57.5	+29 56	"	"	"	26.0	21 57	22 21		
20475	19284	20 07.1	+25 51	"	"	"	26.0	21 34	22 20	2	
20476	193411	20 14.0	+25 12	"	"	"	26.0	22 25	22 55		
20477	AR 11430	20 26.5	+23 37	"	"	"	25.9	22 50	23 30		
20478	H.D. 196624	20 49.7	+25 17	"	"	"	26.0	23 42	0 33		
20479	" 193482	20 45.5	30 16	"	"	"	25.9	00 40	01 40	1	
20480	196977	21 40.7	23 46	"	"	"	25.8	01 45	02 45		
20481	~~A.G 13221~~ HD 217351	~~22 54.8~~ 55.0	~~27 33~~ 32	"	"	"	25.8	02 51	03 51	2	
20482	H.D. 30353	04 41.8	13 06	"	"	"	25.8	04 11	04 41		
	Lee	Lee			O.T.B.						

Dome Temp.
Focus
Dome Temp.

Dome Temp. 74°

Focus 2.932

Dome Temp. +66

Transparency Conditions [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 14 E	+25 10	1	8.95	K2	2-2-2	" 2 " A2 25	Lunar
0 28 E	31 05	2	9.12	K2	2-2-2	" 8 "	fine
0 12 W	25 59	2-1	9.81	G5	2-2-2	" 2 "	Lunar
0 30 W	25 41	2	9.44	K5	2-2-2	" 8 "	fine
1 01 W	27 47	2-3	8.7	K0	2-2-2	" 2 " Flexure	fine
0 53 W	25 27	2	8.84	K5	2-2-2	" ? " Seeing 0-1-2 Very ...	fine
0 47 W	30 27.5	0	8.61	K2	2-2-2	" 2 " 0-1? Quite Wind.	fine
0 53 W	24 00	0-1	8.58	K0	2-2-2	" 7 " Seeing 0-1+ Image ...	good
0 56 W	29 18	~~1~~	~~8.72~~ 8.4	~~G5~~ A2	2-2-2	" 2 "	strong
1 12 E	43 11	1-2	8.3	Gap	2-4 4/3	" 7 Bidelman's Star. " 9.	strong

P.H. Loaded.

	ME	SC	MW	SW	S	SW	ME
	S	S	S		S	S	S
Seq 24	-18.8	+26.2	-16.3	-.2m	-41.6	+18.2	+15.8

135

Date Mon-Tues, Aug 24-25, 1953 Observer O- Hr Julian Day 2434614

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20483	AG 8824	18 16.1	+26 28	I-12.5	E103a-O	Set .008	+26.7	19 59	21 ~~20~~ 09	3	1h 0m W
20484	HD 169819	18 21.4	+25 56	"	"	"	"	21 13	22 13	3	1 7m W
20485	AG 10838	20 01.8	+29 26	"	"	"	+26.4	22 18	23 46	4	1 31 W
20486	HD 197732 BD +30°4417	20 11.3 18.5	+29 42 16	"	"	"	26.3	23 50	0 1 05	4	1 41 W
20487	~~AG 12426~~	21 ~~18.3~~	30 ~~15~~	"	"	"	26.2	0109	0 32	2	1 [illegible]
20488	H.D. 3765 / Focus Test	0035.3	39 40	"	"	"	.	0336	0430	2	1 [illegible]

0913.

Dome Temp.
Focus 12.93
Dome Temp.

Dome Temp. 76°F

Focus 12.933

Dome Temp.

Transparency Conditions Fair, a few scattered clouds and haze in south-east

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0° 45m W	+26 29	2	8.96	K2	2-2-2	Set 2 AG 25 Flexure	weak
1 44 W	+25 58	2	872	K0	2-2-2	" 8 "	good
1 37 W	+29 37	2	944	G5	2-2-2	Set 2 "	weak
2 42 W	29 52	0-1	8.83	K0	2-2-2	" 8 "	fine
0 40 4W	30 29	c	9.5	K0	2-2-2	" 2 " C312 SR Flexure-	lowest
0 12 W	39 57	1-2	8.52	K5	2-2-2	" 7 Std. Vel	strong
					4/3	" 7	

3 P.H.

	MC	SC	UPC	SPEC	S	S	W	HF
Lyot	-20.5	+29.3	+7.5	+.2	-43.6	-.7		+12.2

Date Wed.-Thurs. Aug. 26-27 1953 Observer Mo - [illegible] Julian Day 2434 616

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20489	HD 150102	16 33.8	+27 15	I-12½	E103-a-0	set .008	+28.2	19 44	20 34	1	2 00 W
20490	HD 173367	18 39.8	+28 00	"	"	"	+28.2	20 39	21 33	"	[illegible]
20491	HD 187548	19 45.4	+28 21	"	"	"	+28.2	21 37	22 09	2	0 24 W
20492	HD 191590	20 05.6	+29 26	"	"	"	+28.2	22 14	23 01	"	0 51 W
20493	HD 198421	20 47.9	+29 30	"	"	"	+27.8	23 57	00 51	3	[illegible]
20494	[illegible] 15015	[illegible]	[illegible]	"	"	"	[illegible]	00 55	01 55		[illegible]
[illegible]	HD 11207	[illegible]	-16 48	"	"	set .016	[illegible]	02 10	03 56	4	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	04 03	04 09	1	[illegible]
[illegible]	—"—	"	"	"	"	[illegible]	"	[illegible]	04 21		[illegible]
[illegible]	HD 15747	[illegible]	[illegible]	"	"	"	[illegible]	04 30	04 38	2	[illegible]
20499	HD [illegible]	[illegible]	[illegible]	"	"	"	[illegible]	04 45	04 55		[illegible]
	Focus Test of L.									4	

Dome Temp. [illegible]
Focus 12
Dome Temp.

Dome Temp. +81° F

Focus 12.933

Dome Temp. 12.5

Transparency Conditions Very thin clouds scattered over whole sky

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 00 W	+27 08	1	8.42	M_0	2-2-2	Set 2 AG 25	good
0 54 W	+28 03	1	8.69	K_0	2-2-2	" 8 "	fine
0 24 W	+28 30	2	8.26	G_5	2-2-2	" 2 "	
0 51 W	+29 35	2-	8.84	K_2	2-2-2	" 8 " Broken wires in slow motion controls. Repaired by Hr.	fair
2 03 W	+28 40	2	8.81	K_2	2-2-2	" 2 "	good
3 01 W	-27 03	2	8.91	[illegible]	2-2-2	" 8	[illegible]
0 19 W	-19 31	1	9.6	[illegible]	1-1-1	" 2 [illegible]	fine
0 44 W	-00 40	2	7.5	K_0	1-1-1	" 2 [illegible]	fine
1 00 W	-"-	2	"	"	2-2-2	" 8 "	[illegible]
0 12 W	-15 29	2	7.7	A_2	2-2-2	" 2 K.A	fine
0 42 W	+12 45	2	7.90	[illegible]	2-2-2	" 2 K.A	fine
					1/2	" 8	

	ME	SE	MW	SW	S	SW	ME
Aug 28	-23.0	+33.1	+7.8	+.2 m	+45.1	-15	+9.0

Date Fri-Sat Aug. 28-29 1953 Observer Mo-Hr Julian Day 2434.618

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
						Set					
20500	HD 156002	17 10.0	+26 56	I-12½	E103a-0	0.008	+30.5	19 39	20 49	2	1 47 W
20501	HD 177251	18 58.8	+29 09	"	"	"	+30.5	20 54	21 34	"	0 44 W
20502	HD 194071	20 18.5	+27 55	"	"	"	+30.5	21 39	22 27	3	0 17 W
20503	HD 197263	20 37.5	+27 55	"	"	"	+30.5	22 30	23 12	"	0 43 W
20504	HD 198550	20 46.0	+29 01	"	"	"	+30.2	23 16	00 46	4	0 [illegible] W
20505	204658	21 25.0	+28 26	"	"	"	30.1	00 50	02 30	"	[illegible]
20506	EE Peg	21 35.1	+08 44	"	"	"	30.0	02 42	03 10	1	[illegible]
				0.73.							

Dome Temp.
Focus 12
Dome Temp.

Dome Temp. +83°F

Focus 12.933

Dome Temp. 76°F

Transparency Conditions Fair ... Much haze at beginning.

Exhibition fireworks very good this year.

140

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 49 2		1 47 W	+26 54	1	8.88	G_5	2-2-2	Set 2 AG 25	strong
21 34		0 44 W	+29 13	1+	8.42	K_0	2-2-2	" 8 "	faint
22 27 3		0 17 W	+28 05	1	8.53	K_0	2-2-2	" 2 "	fine
23 18		0 43 W	+28 05	1	8.44	G_0	2-2-2	" 8 "	fine
00 16		0 29 W	+29 12	1	8.82	K_0	2-2-2	" 2 "	good
		0 14 W	+28 38	0	8.77	G_5	2-2-2	" 7 " 0130 A few wisps of [illegible] 0145 A few more 0200 Quite a few more [illegible]	fine
		1 14 W	+08 57	0!!	7.0" 7.5"	A_0	2-2-2	" 2 Bks, Ex. 3 m. Flexure 2 37 5' 20 C-1 E	fine, may be at times
							4/3	" 7.	all right

3 Pl.

141

Date Sat-Sun Aug 29-30, 1953 Observer O - Bk Julian Day 2434.619

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20507	AG 9236	18 43.3	+28 19	I-12	E 103a-O	Set .008	31.0	22 02	00 26	2	
20508	HD 164482	20 45.5	+25 24	"	"	"	31.0	00 35	01 05		
20509	HD 164285	20 20.0	+27 10	"	"	"	30.6	01 14	01 24	2	
20510	[illegible]	22 37.9	+51 56	"	"	"	30.5	01 46	02 16		
20511	[illegible]	02 12.7	+13 00	"	"	"	31.0	02 34	03 34	4	
	[illegible]	02 37.6	+47 05	"	"	"					
	Focus to 0 R.										

Dome Temp. 8
Focus 12 93
Dome Temp.

Dome Temp. 80°F

Focus 12.933

Dome Temp. 73°F

Transparency Conditions much cloud

about 125 visitors shown 1113

162

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 56	25 42	1	8.61	G0	2-2-2	A425 Power 1½ for 4 first records at 22 56 Scattered clouds, Exp just completed from last minute work.	
	2 30	25 35	1	7.66	G5	2-2-2	2 A35 guiding poor	fair
	3 17 45	27 19	0	6.0	B2 II	2-2-2	2 Matthews ** guiding poor	fair
	2 22	52 11	0	7.6	G95	2-2-2	8 -11- The night starts bad, cleared, Field all right, just upside down.	fair
	0 25E	13 15	0	7.0	A5	2-2-2	2 KA	fair
				7.7	A0	4/5	Neal, [illegible], Exposure	all right
							4 Pl. loaded	

Date Sun.-Mon. Aug. 30-31/53 Observer — Hr Julian Day 2434620

Dome Temp.
Focus 10
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20512	A.G. 13167	22 00.6	+25°10′	I-12½	E103a-O	.008	29.8	0107	0239	1	
20513	H.D. 214434	22 33.0	25 55	"	"	"	29.4	0245	0349	"	
20514	" " 30353	04 41.8	+43 06	"	"	"	29.4	0400	0446	2	
	Focus Test										

Dome Temp. 77°F
Focus 12.933
Dome Temp. 73°F

Transparency Conditions Good.

Sun. Aug. 30: I prepared the telescope for observing, but the sky began to cloud over at 7:15 and it was completely overcast at 7:30. It began to rain at 9:00 – Mo

Power must have been off for a few seconds this day. Red dot showing on electric clock.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
:39	0255W	+25° 26′	0-1	8.93	G0	2-2-2	Set. 2 A.G 25	fair
	0333W	26 10	0	8.76	K0	2-2-2	" 7 " "	fair
	0140E	43 11	0	8.3	G0p	2-2-2	" 2 Bidelman's *	strong
						4/3	9.	cl.

2. P.M.

	MC	JC	MTW	STW	S	SW	ME
Aug. 31	−26.3	+41.0	−16s reset	−0m.2	−46s.2	+50s	+17s.2

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Date Mon-Tues Aug 31-Sept 1, 1953 Observer O - Hr Julian Day 2434621

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20515	HD ~~174104~~ 174126	18 ~~43.8~~ 43.9	~~+28 31~~ +28 32	I-12	E103a-O	S.t .008	+30.3	19 41	20 17	3	1 07 E
20516	HD 174104	18 43.8	128 37	"	"	"	"	20 19	21 05	"	0 42 W
20517	HD 198273	20 44.1	-9 01	"	"	S.t .016	+30.2	21 14	22 00	4	0 25 E
20518	HD 205027	21 27.3	+0 34	"	"	"	+30.0	22 05	22 49	"	0 19 E
20519	HD 195667	20 27.6	+26 42	"	"	S.t .008	+30.0	22 55	23 31	1	1 24 W
20520	HD 195712	20 27.8	+26 44	"	"	"	+29.8	23 33	00 13	"	0 [illegible] W
20521	" 199221	20 50.7	27 42	"	"	"	29.7	00 23	00 47	2	[illegible]
20522	" 174440	20 52.1	27 07	"	"	"	27.8	00 51	[illegible]	1	[illegible]
20523	" [illegible] 17	21 55.[illegible]	29 25	"	"	"	29.6	02 07	02 31	5	[illegible]

O-B

Dome Temp. 84°F

Focus 12.933

Dome Temp.

Transparency Conditions Good, Clear

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 07 E	+28 35	2	~~8.56~~ ~~8.72~~	~~K2~~ ~~G5~~	2-2-2	Set 2 AG 25. Warm night, clouds / Could get data with them	good
0 42 W	+28 40	0-2	8.72	G5	2-2-2	8 " Flexure	good
0 25 E	−8 50	1+	9.0	G2	2-2	Remain Hi-vel.	fine
0 19 E	+0 49	1	8.9	G2	1-1-1	8 " "	strong
1 24 W	+26 53	1-2	8.55	K2	2-2-2	Set 2 AG 25	good
02 06 W	26 55	2-0	8.60	K0	2-2-2	8 "	fine
02 17 W	27 52.5	2	8.30	G5	2-2-2	" 2 "	strong
03 30 W	27 20	0	8.11	K0	2-2-2	" 7 " 0140 Back of Cloud NW	fine
02 57 W	24 37	0	8.68	K2	2-4	" 2 " 0229 Still Hazy	poor work
					4/3	- 9	all left

1 Pl.

Date Tues Sept 1-2/53 Observer Hd - Hr Julian Day 2434.622

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20524	HD 174884 MWC 307	18 47.7	-10 21	I-25	E103aO	008	31.5	19 42	20 30	4	W ½ᵐ
20525	V451 Oph	18 24.5	+10 49	"	Hipped	"	31.5	20 42	22 02	1	2.01
20526	EE Peg	21 35.1	+08 44	"	E103aO	"	31.6	22 07	22 37	2	3 34
20527	HD 195407 MWC 346	20 26.0	36 39	"	E103aO	"	31.5	22 42	23 16	4	W 1 14
20528	HD 205060 MWC 371	21 27.1	42 16	"	Hipped	"	31.5	23 20	23 46	1	W 42ᵐ
20529	HD 206773 MWC 376	21 39.3	57 17	"	"	"	31.5	23 50	00 14	2	W 59ᵐ
20530	HD 209296 MWC 383	21 57.2	56 14	"	"	"	31.8	00 17	01 27	3	W 55ᵐ
20531	HD 217 543 MWC 395	22 56.3	38 10	"	"	"	31.7	01 33	01 47	4	W 16ᵐ
20532	HD 224 559 MWC 417	23 53.3	45 52	"	"	"	31.7	01 54	02 10	1	W 8ᵐ
20533	HD 225095 " 417	0 3 58.3	55 00	"	"	"	31.8	02 18	02 38	2	W 12ᵐ
20534	HD 4180 " 2	0 37.2	47 41	"	"	"		03 14	03 40	3	
								03 16	03	"	
							31.8	03 33	03 46		21 III W
20535	HD 6343 MWC 10	0 59.1	65 26	"	"	"	31.8	03 55	04 21	4	
20536	HD 21650 " 68	3 41.6	44 25	"	"	"	31.8	04 24	04 51	1	

Dome Temp.
Focus 15
Dome Temp.

Dome Temp. +89°F!
Focus 15.897
Dome Temp. 77°F

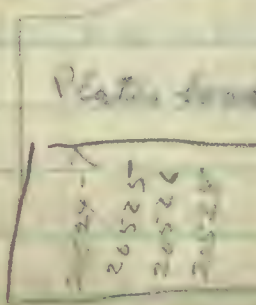
Transparency Conditions fair.

changed to I-25 : 1-12 trans was 12.934 set I-25 from 15.897
Tilt was 20135 to 23.15

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 06m	−10 18	2	8.1	B3e	4-4-4	Be Pair; set 2	good
W 2 01	+10 51	2	7.9	A0	6-6-6	Set 5 Ecl. Bin. Flexure	good
E 34m	+8 56	2	7.5	A0	4-4-4	set 2 Bk's Bin.	fair
W 1 14	36 39	2	7.7	B3e	4-4-4	Set 8 Be Pair	1 cir.
W 42m	42 29	2	7.1	B5(n)e	6-6-6	Set 5 Be Pair.	fine
W 59m	57 31	2-3	7.0	B5ne	6-6-	" " " "	fine
01 55W	56 31	0	8.1	B(5)e	6-6-6	" " " "	good
01 16W	38 26	2	6.4	B5ne	6-6-6	" " " " IPHE 113 Olst cir	
00 41W	46 02.5	2	6.5	B5ne	6-6-6	" " " "	Fair
01 35W	55 18	1-2	7.6	B1e	6-6-6	" " " "	fine
		2	4.7	B5ne	18	" 2	
		2	7	"	18	" 5	
01 11W	41 01	2	"	"	9-9	" 8	
01 11E	42 12	2	7.1	B5e	7-5-6	" 8	good
00 10E	41 33	3+	7.2	B5ne	6-6-6	" 8	
					12/2	" 8	

	MC	SC	MTW	STW	SW	ME
Sep. 2.	−30s	+43s	+4s.8s	+0m.3	+1m30s	+12s

Plate tested thus



Date Wed.-Thurs. Sept. 2-3, 1933 **Observer** We - Mo **Julian Day** 2434623

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20537	MWC 278 HD 164324	19h 55m.3	+4° 22'	I-25	Cramer [illegible]	0.008	33°.2	19h 58m	20h 01m	3
	"	"	"	"	"	[illegible]	[illegible]	20 02	20 08	"
	"	"	"					20 09	20 21	"
20538	MWC 292 HD 165957	18 17.3	+25 01	"	"	0.008	33°.2	20 30	21 10	4
20539	MWC 310 HD 177648	19 00.5	+23 11	"	"	0.008	33.2	21 16	21 54	1
20540	MWC 350 HD 196712	20 34.0	-2 46	"	"	0.008		22 01	22 07	4
	"	"	"	"	"	"	33.2	22 08	22 20	"
	"	"	"	"	"	"		22 20	22 44	"
20541	V 459 Aquilae	18 24.5 ~~26.9~~	+10 49	"	E-103a-O	0.008	33.1	22 50	23 50	2
20542	HD 200775	21 00.4	+67 47	"	Cramer High Speed	0.008	+33.2	23 59	00 51	4
20543	HD 182661	19 47.9	+18 25	"	"	Prisms in 1st position 0.600	+33.0	01 07	01 49	1
20544	32 Cygni	20 12.4	+47 29	"	E103-a-O	0.008		02 01	02 13	3
	"	"	"	"	"	"		02 06	02 10	
	"	"	"	"	"	"	+33.0	02 12	02 20	
20545	MWC 29 HD 182661	19 06.1	+51 09	"	E103-a-O	"	+33.1	02 55	03 35	1
20546	MWC 76 HD 215827	22 44.1	+61 11	"	"	"	+33.1	04 02	04 36	

Dome Temp.
Focus 15.
Dome Temp.

Hour Angle End

Dome Temp. 87°F.
Focus 15.917 Extrapolated from final chart
Dome Temp.

Transparency Conditions Very good
Some aurora in north most of time, at times bright and in sheets, but faint most of time

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 34m W	+ 4° 21′	0!!!	4.8	B5ne	7-7	Set 2 Hearts Be - program	Smog forming with Zirconia [illegible]
0 41 W	"	"	"	"	6-6-6	" 5 " " "	
0 54 W	"	"	"	"	6-6-6	" 8 " " "	
1 21 W	+25° 01′	0-0!	6.9	B5e	6-6-6	Set 2 " " "	fine
1 22 W	+ 23° 14′	0	6.9	B3e	6-6-6	Set 5 " " "	fine
0 00	- 2 36	1+	6.3	B5e	6-6-6	Set 2 " " "	Cirrus to left of Leo. with good
0 14 W	"	1+	"	"	6-6-6	Set 5 " " "	
0 32 W	"	1+	"	"	6-6-6	Set 8 " " "	good
3 54 W	+10 51	1	7.9	A0	4-4-4	Set 5 Hearts eclipsing binary. Flexure	
2 20 W	+68 00	1-2	(7.5)	B5e	6-6-6	Set 5 Nuttall's Be star in NGC 869	fine
4 30 W	+ 18 33	0-1	6.2	C7	6-6-6	" 5 Oke's star	fine
		2	4.16	cK5+A	12	" 1½	
		2	"	"	6-6	" 5	
4 36 W	+ 17 32	2	"	"	4-4-4	" 8½	
0 14 W	+ 54 17½	1-2	8.6	B(3)ne	4-4-4	" 5 B star - Field drawn Oke's	
0 42 E	+ 63 31	2	8.1	B5e	4-4-4	" 8½ In "	

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Continued

Date Wed Thurs Sep 2, 3, 1953 **Observer** Mc **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
2547	16 Aurigae										
	M 96	05 11.6	+33 17	J-25	F:33-a-O	C-OCE		04 48 (12)	05 00	2	54½
	"	"	"	"	"	"		05 00 (6)	05 06	"	
	"	"	"	"	"	"		05 06 30 (3)	05 09 30	"	
	Focus Test	O.T.B.									

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp. +75° F

Transparency Conditions.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 44W		2	5·8	K_3	4-4-4	Set 1 - Ho star	
		"	"	"	4-4-4	" 4	
	+33 19½	"	"	"	6·6	" 7 — 3 ph loaded - all E103a-O	54
					12-8	" 10½	focus Ok.
						MC SC MTW STW S SW ME Sep. 3 −30·5 +47·0 −01·0 +0·3 −48·0 +1m52s +15·5	

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Date Thurs Sept 3-4/53 Observer Hd Julian Day 2434624

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20548	HD 175863 MWC 308	18 52.3	59 53	I-25	Hyped	008	31.9	19 36.	20 26	2	W 0.6m
20549	V451 Sgr.	18 24 5	10 49	"	E103a0	016	31.8	20 32.	22 02	3	W 2.0?
20550 A	HD 187671	19 46.2	10 10	"	"	016	31.9	22 05	22 15	3	W 1.0m
" B						008	32.0	22 16	22 36	3	W 1.2m
20551	HD 198183 MWC 352	20 43.5	36 07		Hyped	008		22 41	22 45	2	W 0.5m
							32.0	22 46	22 54		W 1.5m
								22 54	23 16		W 1.0m

Dome Temp.
Focus 15
Dome Temp.

Dome Temp. 85 F
Focus 15.912
Dome Temp.

Transparency Conditions Poor.

Ending Time E.S.T.	P.M.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
26	2	W 06m	59 57	0!	6.9	B4e	6-6-6	Be Prog. Bright aurora with Corona	good
02	3	W 2 08	~~34 10 51~~ 0	0	7.9-	A0	2-2-2	Set 5 Ecl. bin. Star very faint, Prob. in preceding eclipse. also haze	weak
15	3	W 1 00	10 15	0	5.76	F8	3-3	Set 1 Std Vel Haze around.	good
36		W 1 20		1			3-3-3	" 9 " "	good
45	7	W 0 33		1	4.5	B6e	9-9	set 1 Be prog.	
		W 0 42	36 18	1			9-9	Set 5 Haze still around.	
16		W 1 04		2			9-9	" 9 star gone.	fair

144 loaded with 103a0
3 " " Hufeed

	MTW	STW	MC	SC	S	SW	NE
Sep. 1	-04°0	+0m.3	-31.6s	+48.3s	-48.3s	+2m17.5s	+19.7s

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Date Sat Sept 5-6/53 Observer Ho - Mo Julian Day 2434626

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20552	HD 193009	20 12.9	32 04	1.25	High Speed	Set .008	21.4	21 29	21 35	3	
	"	"	"	"		"	"	21 37	22 16	"	W 49 W
20553	HD 188001	19 47.9	18 25	"	"	(Long Slit) "	21.7	22 23	22 43	2	W W
20554	HD 203374	21 16.7	61 25	"	"	Normal Slit "	21.8	23 04	23 30	3	54 W
20555	MWC 394 HD 217050	22 52.7	+48 09	"	"	0.008	+21.6	23 45 30	23 48 00	2	
	"	"	"	"	"	"		23 49 30	23 54 30	"	
	"	"	"	"	"	"	+21.6	23 56	00 06	"	E
20556	M1 (HD 28)	00 00.2	-06 16	"	E103-aO	"		00 30	00 34	4	
	"	"	"	"	"	"		00 36	00 44	"	
	"	"	"	"	"	"	+21.6	00 46	01 02	"	E
20557	MWC 402 HD 233501	23 45.0	+61 39	"	"	"	+21.6	01 23	02 11	1	W
20558	MWC 23 HD 123c2	01 55.6	+59 12	"	"	"	+21.6	02 19	03 03	"	E
20559	HD 22484	03 31.8	+00 05	"	Hi Speed	"		03 22	03 24	4	
	"	"	"	"	"	"		03 26	03 30	"	
	"	"	"	"	"	"	+21.6	03 31	03 39	"	E
20560	HD 30353 Focus Test	04 41.8 0T.B	+43 66	"	E103-a-O	"	+21.6	03 58	05 10	1	E

Dome Temp. A
Focus 19.7
Dome Temp.

Dome Temp. 66

Focus 15.739

Dome Temp. +61° F

Beautiful green auroral arc across northern sky. - 120 Large spot just west of Castor and Pollux varying rapidly in brightness.

Transparency Conditions Fair

About 12½" Visitors Shown M13 Ring Nebula Saturn and β Cyni with 4"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	32 13	0	7.0	Bone	6-	Be Prog. Set 5	Focus 15.730
00 43W	"	"	"	"	6-6-6	Set 9	Changed to 15.739
01 35W	18 30	1½	6.2	07	6-6-6	OKB's *	How image appeared on longest Slight astigmatism. fine
0 54W	61 38	0-1	6.6	Bone	6-6-6	Be	
		1+	5.2	B3ne	9-9	Be prog. Set 1½	
		"	"	"	9-9	" " " 5	
0 07E	+48 26	"	"	"	6-12	" " " 8½	
		2-	5.7	Ko	6-6	Ho star " 1½	
		2.	"	"	6-6	" " 5	
0 18E	-05 59	2+	"	"	4-4-4	" " 8½	
1 06W	+61 57	1	8.2	B3e	4-4-4	Be prog. " 2	
0 14E	+59 25	1+	8.2	B3e	4-4-4	" " 8	
		2	5.18	Fg	9-9	Std. Vel " 1½	
		"	"	"	9-9	" " 5	4 pH loaded with Hi Speed plates.
1 13E	+00 16	"	"	"	9-9	" " 9½	
0 53E	+43 11	1	8.3	Gep	4-4-4	Bidelmans Star 4 9	fine

(Mo) O

Date Sun-Mon Sep. 6-7 1953 Observer O — Hr Julian Day 2434627

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
						Long slit					
20561	HD 188001	19 47.9	+ 18 25	I-25	Hi Speed	0.008	+23 0	19 32	20 06	1	C 59E
20562	"	"	"	"	"	"	+23.0	20 06	20 36	"	C 13E
20563	"	"	"	"	"	"	+23.0	20 36	20 52	"	C 13E
20564	"	"	"	"	"	"	+23.0	21 31	21 49	4	C 44W
20565	"	"	"	"	"	"	+23.0	21 49	22 05	"	C 01W
20566	"	"	"	"	"	"	+23.0	22 05	22 21	"	C 16W
20567	"	"	"	"	"	"	+23 0	22 22	22 38	2	
20568	"	"	"	"	"	"	+23 0	22 38	22 58	"	C 54W
20569	"	"	"	"	"	"	+23.1	22 58	23 16	"	C 45W
20570	"	"	"	"	"	"	+23.0	23 16	23 34	3	C 30W
20571	"	"	"	"	"	"	+23.0	23 34	23 41	"	
20572	"	"	"	"	"	"	+23.1	00 22	00 44	"	C 30W
20573	"	"	"	"	"	"	23.2	00 44	01 02	4	C 04W
20574	"	"	"	"	"	"	+23.4	01 23	01 42	"	
20575	M.W.C. 13	0124.6	+ 62 51				23.5	21 51	0243	1	
20576	F [illegible] 49	[illegible]	[illegible]				23.7	02 38	0340	2	

Dome Temp. +70°F
Focus 15.761
Dome Temp. 62°F

Transparency Conditions Good after the clouds departed.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
0 59E	+18 31	1½	6.2	0₇	6-6-6	Set ½	Clouds - star disappearing intermittently	fair
0 29E	"	2	"	"	6-6-6	" 5	effective starting time 20 18, due to clouds	good
0 13E	"	1-2	"	"	6-6-6	" 8½	Clouded out	Lucky
0 44W	"	2	"	"	6-6-6	" 1½		fair
1 01W	"	2-3	"	"	6-6-6	" 5		fair
1 16W	"		"	"	6-6-6	" 8½	Flexure	fair
		2-3	"	"	9-9	" 1½	Mo guiding	good
1 54W	"	2	"	"	9-9	" 5		good
2 11½W			"	"	9-9	" 8½		Lucky
2 30W		2	"	"	9-9	" 1½		fair
—			"	"	9-	" 5	Effective ending 23 39 ; Clouds 23 39 -	—
3 40W	+18 32	1-2	"	"	9-9	" 8½		fair
4 04W	"	1	"	"	9-	" 1½		fair
[illegible] 38W	"	1	"	"	9-9	" 5		fair
[illegible] 01W	6305	1-2	7.5	cable	6-6-6	" 2	13e Ptg.	
[illegible] N	[illegible]	0-1	[illegible]	Base	6-6-6	5	Flexure	

Date Mon.-Tues. Sept. 7-8, 1953 Observer We — Hr Julian Day 2,434,628

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B	Hour Angle End
2 0577	MWC 317 HD 183143	19h 23.0m	+18° 05'	I-25	Cramer High Speed	0.008	20°.9C	19h 27m	20h 21m	2	0h 5E
20578	MWC 312 HD 180398	19 11.3	+12 56	"	"	"	20.9	20 25m	22 05m	1	
20579	MWC 331 HD 192044	20 07.8	+26 11	"	"	"		22 09	22 15	4	
	"	"	"	"	"	"	20.8	22 16	22 30		
	"	"	"	"	"	"		22 30	22 52	"	
20580	Central Star in NGC 7023 HD 200775	21 00.4	+67 47	"	"	"	20.9	23 00	0 20	2	
20581	32-Cyg.	20 12.4	47 24	"	E 03.0	"	20.8	00 25	0 [illegible]	4	
	"	"		"	"	"		00 [illegible]	0 37		
	"	"		"	"	"	20.8	00 38	0 54		
20582	HD 194152 BD +45 3110	20 18.7	+45 22	"	"	"	20.7	01 05	01 29	3	
20583	MWC 63	03 07.9	48 19	"	A-Speed	"	20.9	21 47	03 [illegible]	1	
20584	" 79	03 11.3	44 38	"	"	"	21.0	03 38	04 5[illegible]	3	
	[illegible]	[illegible]	0.93								

Dome Temp.
Focus
Dome Temp.

Dome Temp. 65°F.
Focus 15.722
Dome Temp.

Transparency Conditions Very good

Changed camera to I-12½, I-25 Focus was 15.723 Tilt was 23.17 I-12 focus set 12.934 Tilt set 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 15m E	+18° 11'	0-1	6.9	B3 nebd	6s-6s-6s	Set 2 Rhombs Be - [illegible]	
1 41 W	+13° 00	0	7.7	B3 ne	6-6-6	Set 5 " " "	
0 55 W	+26 19	0	5.7	B8 ne	6-12	Set 2 " " "	Flexure
1 19 W	"	"	"	"	6-6-6	Set 5 " " "	No spectrum - P.H. not opened about 2m [illegible]
1 31 W	"	0-1	"	"	6-6-6	Set 8 " "	
0 09 W	+67 58	0	7.5)	B5 neJ	6-12	Set 5 Wolf's Be - [illegible]	
0 05 W	—	0-1	4.16	CK5+A	6-6	" 2	
0 31 W		0-1			4-4-4	" 5	
0330 W	+47 33	0-1			4-4-4	" 5	
0355 W	45 36	0-1	6.9	Ko	4-4-4	" 5	
0054 E	49 30	0	7.9	B8 ne	6-6-6	" 5 Be Peg	
0 21 E	44 47	0	7.8	B3 ne	6-6-6	" 5	
					12/60	" 7	

	Mc	Sc	Mc	Sc	S	ME
Sep. 8	-39.0s	+4.8s	-3.0s	-.1m	-33.7s	-48.4s	+21.7s

IPH E 10:30

Date Tues.-Wed. Sept 8-9, 1953 **Observer** Mc. M. **Julian Day** 2434629.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20584	HD 204921	21h 26m 7	+29° 30'	1.12	E103aO	Set .006"	18.8°	21 38	22 28	1
20586	HD 208987	21 53.0	+29 25	"	"	"	18.8	22 36	23 36	.
20587	HD 208379	21 50.8	+25 27	"	"	"	+18.7	23 40	00 44	3
20588	HD 206332	21 36.3	+28 18	"	"	"	+18.7	00 48	01 10	"
20589	BD+53° 101 (not in HD) BD+53° 104	00 30.7 00 31.2	+54 06 +54 05	"	"	0.016	+18.7	01 34 40 7	03 04	4
20590	HD 29587	04 34.5	+41 57	"	"	"	+18.7	03 23 30 12	03 30 30	"
20591	"	"	"	"	"	0.008	+18.7	03 35	03 47	3
20592	HD 27029	04 11.2	+15 58	"	"	"		04 02	04 12	"
20593	HD 33127	05 03.0	+14 59	"	"	"	+18.7	04 32	04 46	1
	Focus Test	0.T.B.								

Dome Temp. 63°F

Focus 12.934

Dome Temp. + 54°F

Transparency Conditions Poor

Clouds, – cmainly cleared away by 21.25

Green auroral arc in north, just south of a big cloud bank – 00:30

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00 06E	+30° 04'	0-1	8.49	K0	2-2-2	A.G. Set 2	
	00 32W	+29 39	0-1	8.68	K2	2-2-2	AG Set 8	
00 44.3	1 45W	+25 40	0-1	8.64	G5	2-2-2	AG Set 2	fine
01 10	2 26W	+28 33	1	7.54	G5	2-2-2	" " 8	fine
03 04.4	1 25W	+54 21½	1½	~~9.3~~	A0	1-1-1	Hi Vel. " 2	wrong*
03 30	2 13E	+42 00	2	7.85	G2	1-1-1	Std. Vel. 8	strong
03 47	1 56E	"	2	"	"	2-2-2	" 2	strong
04 12	1 07E	+16 04	2	7.62	G5	2-2-2	K.A.72 8	fine
04 46	1 25E	+15 02	1½	7.99	A0	2-2-2	K.A.732	fine
						4-3	9.	

P.H. 2 (small) One cosmic ray crashed from plate by [illegible] Did not use it; I was afraid the chip was into one of the spots.

Field does not check. Sidereal circle 0.6 fast Settings O.K. N. Roman.

3 p.h. loaded.

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Date Wed-Thurs Sept 9-10, 1953 Observer O - Hx Julian Day 2434630

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20594	HD 175578	18 50.9	+29 54	I 12	E103a-O	Set .008	+21.0	19 18	19 56	3	0° 32W
20595	AG 9364	18 51.3	+29 52	"	"	"	+21.0	19 58	20 54	3	0 58W
20596	+4° 4762	21 49.1	+4 30	"	"	Set .016	+21.0	21 02	23 12	4	0 18W
20597	HD 197550	20 39.3	+29 51	"	"	Set .008	+20.8	23 19	00 07	2	0 22W
20598	HD 197605	2039.7	27 06	"	"	"	20.7	23 13	0118	1	0 33W
20599	" 11397	01 46.7	-16 48	"	"	.016	20.7	0138	0234	4	0 33W
20600	" 29587	0434.5	41 57	"	"	"	20.7	0343	0359	1	0 16E
20601	"	"	"	"	"	.008	20.9	0404	0414	1	0 6E
	"(29236)	Mushtow	int. Looks about								
20602	27532	04 15.7	2925	"	"	"	20.8	0451	0503	3	0 6E
	Two	Test	OTB								

Dome Temp. 5
Focus 12 93
Dome Temp.

Dome Temp. 67°F Transparency Conditions Good

Focus 12.934

Dome Temp. 55

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
19 56	0h 00 W	+29 58	0-1	8.35	G5	2-2-2	Set 2	AG25	strong
	0 58 W	+26 56	1-2	8.96	K0	2-2-2	" 8	"	strong
	0. 18 W	+4 45	.1	9.9	G0	1-1-1	" 2	Hi Vel.	strong
0 07 2	0 223 W	+30 01	1-2	8.81	K0	2-2-2	Set 2	AG·25	thin
11	0334W	27 16	1-0	8.54	K0	2-2-2	" 8	" "	faint
	0 43W	-16 34	0	9.5	F5*	2-2-2	" 8	Hi. Vel. * Bouw. Mag. G. III	faint
	014/E	4201	0	7.35	G0	2-2	" 2	Std. Vel	strong
	0 116 E.	"	0	"	"	2-2-2	" 8	Guiding lost	strong
	0 017E	29 30	0	7.7	A2	5-3	" 2	K.A. 48	Too weak
						4/3	" 9	weak, poor contrast	

2 P.H. 103.0

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Date Thurs-Fri Sept 10/11, 1953 Observer H. Ludwig Julian Day 2434631

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20603	HD 178027	19h 02.0m	+29° 11'	I-12	I-03a-O	Lt .008	22.4 C	19h 21m	20h 25m	1	
20604	HD 178727	20h 07.0m	+29 25	"	"	"	22.4	20 31	21 [illegible]	"	
[illegible]	HD192287	20 09.0	+24 56	"	"	"	22.3	21 25	22 20	2	
20606	HD 195790	20 28.3	+27 10	"	"	"	22.2	22 23	23 15	"	
20607	HD 198114	20 44.0	+22 10	"	"	"	22.2	23 19	00 25	3	
20608	HD 203750	21 53.3	+26 45	"	"	"	22.1	00 32	01 36	"	
[illegible]	+53° 104	21.2	41 05	"	"			01 53		4	
	[illegible]					.016	22.3	03 12	04 12	"	
[illegible]	HD 2358[illegible]	[illegible]	41 57	"	"	"	22.4	04 35	05 33	1	
[illegible]	"					.002		04 35	05 53	1	
	[illegible]	[illegible]	[illegible]	[illegible]							

Dome Temp. 67°F
Focus 12.934
Dome Temp. 59°F

Transparency Conditions Poor - Some Haze & Cloud

Some Aurora early in the night.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00h 32m W	+29°14'	0-1	8.7	K0	2-2-2	AG Set 2 Flexure	fine
00 13 W	+29 32	1-2	8.8	K2	2-2-2	AG Set 8 RA Clamping Screw set wrong.	fine
01 10 W	+25 04	1-2	8.86	M3	2-2-2	AG Set 2 Transparency improving	good
01 46 W	+27 19	1-2	8.33	K0	2-2-2	AG Set 8 Increased exposure time, since off merid. ha.	fine
02 41 W	+28 19	1-2	8.70	K0	2-2-2	AG Set 2 "	fine
03 12 W	26 59	1-2	8.7	G5	2-1	AG Set 8 poor guiding	fair
			(7.3)	A0	2-	2 H1-Vol.	
04 10 W	54 24	0-1	"	"	1-1-1	" 5 "	
01 03 E	42 02	2	7.85	G0	1-1-1	" 2 Std-Vol. Badly out of focus	
02 43 E		2			1-2-2	" 6 " Badly out of focus	
							Central star for telescope
					1/3	" 3	

	MC	SC	MTW	STW	S	SW	ME
Sep 11	-39.8s	+3.7s	-0.8s	+1.2m	-52.8s	-31s	+18.2s

1 Pill. Loaded E...

Date Sept-Oct Sept. 9/10, 1932 Observer HA Julian Day 2434632

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
2C 612.	H.D. 128565	15 45 5	+40 08	12½	E103a-O	.008	+22.5	20 27		2	
	Focus Plate	3 7 2.									

Dome Temp. 67° F

Focus 12.034

Dome Temp.

Transparency Conditions [illegible]

Sat. Sep. 12. Showed 25 visitors 74" - N-Mo
Sky completely overcast.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 53½	29 13	0	8.83	3 C	1-L-	Flexure [illegible]	W.
					13		all right
						[illegible]	

	NE	SE	NW	SW	SW	S	ME
Sept. 14	-42.0	+6.3	-16.0	.0	+25	+10.7	+18.8

Date Mon Sep 14-15, 1953 Observer Hd - Hs Julian Day 2434635

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20613	HD 177251	18 58.8	29 09	I-12	Ε10340	008	+15.0	19 16	20 52	3	.18m
20614	HD 192286	20 09.0	+30 11	"	"	"	+15.0	20 56	21 56	3	0.2
→20615	HD 198273	2044.1	−9 01	"	"	016	+15.1	21 03	22 05	4+	W 0.15
20616	HD 192405	20 09.6	+27 14	"	"	008	+15.0	22 12	22 46	1	W 1.51
20617	HD 196928	20 35.3	27 44	"	"	008	+15.1	22 51	23 31	1	W 1.1
→20618	+17 4708	22 06.7	17 36	"	"	016	15.0	23 43	01 17	4	W 1.N
20619	H.D. 11397	01 46.7	−16 43	"	"	"	15.0	0127	03 01	2	W 1.1
	~~295.87~~										
	Zone	1 hr	1			.008					

Dome Temp.
Focus
Dome Temp.

Dome Temp. 59F

Focus 12.937

Dome Temp. [illegible]

Transparency Conditions Good.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 08m	29 11	0-1	8.42	K_0	2-2-2	Set 2 AG prog.	fine
W 02m	30 19	0-1	8.75	G_5	2-2-2	" 8 AG "	fine
W 0 35	-8 51	0-1	9.00	G_2	1-1-1	Ref 2 Roman Hi Vel.	fine
W 1 51	27 21	1	8.42	G_0	2-2-2	" 2 AG prog.	l strong
W 2 11	27 55	1-2	858	K_5	2-2-2	" 8 AG "	[illegible]
[illegible] 25W	17 50	1-2	9.8	F_2	1-1-1	" 8 Roman Hi Vel. (guiding)	[illegible]
0 03 CW	-16 33	0-1	9.5	F_8	1-1-1	" 2 " " " 0245 Clouds [illegible] 0305 Stars [illegible]	fine
					4/3	9	
						4 P.H.	

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Date Tues Wed Sept 15-16 1953 Observer O - Julian Day 2434636

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20620	HD 187565 Tau Tel D R	19 45 5	+29 08	I-12	E103a-O	2 wt 008	+15.4	19 30	20 40	1	1:N

Dome Temp.
Focus 11.7
Dome Temp.

Dome Temp. +56° F

Focus 12.933

Dome Temp.

Transparency Conditions Clouds in W at beginning, drifting out
Some haze
20.30 very thick

172

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 13 W	+29 13	0+	8.83	G0	2-2-2	Set 2 AG-25 Slipped clutch in RA Flexure 8 Focus Test 5/5 3 P+I Limited	Fair

173

Date [illegible] Observer [illegible] Julian Day 2434637

Dome Temp.
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
[illegible]	H.D. 37017	02 45.7	[illegible]	[illegible]	[illegible]	.002	[illegible]	0 2 24	[illegible]	2	0 09W
	[illegible]	[illegible]	[illegible]	[illegible]							

Dome Temp. +40

Focus 12.933

Dome Temp.

Transparency Conditions Good.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 09W	60 16	0	8.4	0,	2m-2 8/6	Mathews A set 2	
						0327 Clouds Haze.	
						Star Trails	
						Flash 1/10 Sec.	
						2 P.H.	

175

Date Thurs. Sept 17-18/53 Observer L-Hr Julian Day 2434638

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20622	A.G. 10837	20 01.8	29 26	I-12½'	E103A-o	ser .008	14.8	19 20	20 26	3	
20623	" 11036	20 10.6	26 29	"	"	"	14.8	20 30	21 36	3	
20624	H.D. 193488	20 15.4	27 06	"	"	"	14.8	21 43	22 33	4	
20625	" 194510	20 20.9	25 24	"	"	"	14.8	22 37	23 11	4	
20626	A.G. 12398	21 17.0	29 51	"	"	"	14.8	23 18	00 20	1	
20627	+17° 4708	22 06.7	17 36	"	"	.016	14.8	00 30	02 40	2	
20628	+50° 1357	06 44.6	50 46	"	"	"	15.0	03 07	05 07	2	

Dome Temp.
Focus
Dome Temp.

Dome Temp. +56°F

Focus 12.933

Dome Temp. 7.7

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 10 E	29 36	0	8.84	G0	2-2-2	Set 2 A.G. 25	
0 52 W	26 38	0	8.93	G5	2-2-2	Set 8 "	
1 45 W	27 15	0-1	8.57	G5	2-2-2	Set 2 "	
2 17 W	25 32	0-1	8.33	G5	2-2-2	Set 3 "	
2 30 W	30 04	1	8.98	K0	2-2-2	Set 2 "	
2 00 W	17 51	1	(9.2)	F2	1-1-1	" 2 Hi Vel. Flexure	
2 09 E	50 42	1-2	10.32	A0	1-1-1	" 7 " "	
					2/6	" 9	

2 P.H. + 3 In Dome

	HE	SC	NW	STW	S	SW	NE
Sept 18.	-45.2	+11.9	-10.0	+.1 m	-3.3	+19	+16.2

Date Fri Sept 18-19/23 **Observer** HC - Mc **Julian Day** 2423639

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20629	V 451 Oph	18h 24.5m	+10° 49'	I-25	Hi-Speed	Set .008	15.2C	19h 08m	19h 41m	1	06 W
20630	"	"	"	"	E103aO	Set .016	15.2	20 14	22 14	3	08 W
	Recovered Dome - few very small clouds scattered about 23h 15m - Mc S										
20631	MWC 161 HD 19243	3 00.7	+62 00	I-25	Hi Speed	Set 0.008	+14.5	00 30	00 48	1	2.44E
20632	MWC 82 HD 26420	4 05.7	+41 53	"	"	"	+14 4 +14 2 +14.0	01 17	02 31	2	1.4E
	Focus Test	C.T.B.					+14.0			"	

Dome Temp.
Focus
Dome Temp.

Dome Temp. 58°F

Focus 15.642 Reset 15.635 at 00h

Dome Temp. +55°F

Transparency Conditions Poor - Partly Cloudy

Fri. Sept. 13 L.T.

Changed to 25" Camera 12½" was Focus 12.933 : 25" is Focus 15.639

Northern sky covered with brilliant green aurora Filt 20.35 Filt 23.17

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 48 W	10° 49'	00	7.9	A0	6-12	Set 5 Used slit setting, emulsion etc as in 20525 Intermittent cloud. - Closed in at 19h41m	
03 20 W	"	00	7.9	A0	6-6-6	Clouds thinned out - Tried faster emul + wider slit - Moon (aurora) contg Exposure not started again many times during exposure because of cloud.	
						1 PH + 8 In dome	
2 44 E at 02 31	+62 10	1+	6.5	B2e	6-6-6	Set 5 Be star. 1st half of exposure through thin clouds Star gone at 02:27	
2 04 E	+41 58	1	7.6	B3neq	6-6-6	" 5 1:26 - 1 40 - star almost completey gone - haze Thermostat pointer not making good contact with wire	
					20-14	" 9	
						P.H #3 - Hi Speed } in dome P.H #4 - F 103-a-O	
						Ne SC Hxe Stw S W Hg Spec 21 -17.0s +15.6s -30.2s -.3m -7.4s +16s +19.2s	

MR

Date Mon Sept 21-22 1953 Observer Hd - Hr Julian Day 2434642

Dome Temp. 5
Focus 1245
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20633	BD+26°3578	19 28.4	+26 11 07	I-12	E103aO	016	+16.1	19 15	21 15	4	W 1 28
20634	HD 194071	20 18.5	27 55	"	"	008	16.2	21 23	22 13	1	1 15
20635	HD 194525	20 21.0	30 15	"	"	"	16.1	22 20	23 20	1	1 20
20636	HD 224383	23 52.3	-10 12	"	"	"	16.2	23 27	00 39	4	
20637	+56°107	00 31.2	+54 05	"	"	016	14.8 13.9 *	50	03 5	2	
[illegible]	H.D. 29587	04 34.5	41 57	"	"	"	13.7	[illegible]	04 12	"	
[illegible]	"	[illegible]	[illegible]	"	"	[illegible]	13.8	04 14	04 3[illegible]	"	
[illegible]	" 30353	04 41.6	45 36	"	"	"	13.3	[illegible]	05 11	1	
	Focus Test		O.K.								

Dome Temp. 57F

Transparency Conditions

Focus 12.933

Dome Temp. Changed to 12½" camera 25" was Focus 15.635 Tilt 23.17 12½" is Focus 12.933 Tilt 2035

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 28	26 15	0	9.74	F_2	1-1-1	set 2 Roman Hi Val	stormy
W 1 37	28 04	0	8.53	K_0	2-2-2	set 2 HG Clouds 2235–2243 First set telescope many west in effort to preclude flexure	fine
W 2 41	30 25	0	8.42	G_5	2-2-2	" 8 AG.	fine
[illegible]W	-0456	0	8.5	G_2	2-2-2	" 8 Roman Hi Val	fine
[illegible]	[illegible]	0	9.3	A_0	1-1-1	" 2 " " "	fine
[illegible]	[illegible]	[illegible]	7.85	[illegible]	1-1-1	" 5 [illegible] * Pointer [illegible]	stormy
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2-2-2	" 3 [illegible]	stormy
[illegible]N	+13 12	[illegible]	[illegible]	[illegible]	2-2-2	" 5 [illegible]	fine
					[illegible]	[illegible] Too t	violent

G2 – G2
C2 – C2

Date ~~Tues-Wed~~ Sept 22-23/53 Observer O – L Julian Day 2434643

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20641	Focus Test.					Set .008	+13.0			
	B Aql	1950 19 52.9	1950 +06 17	I-12	E103a0	"		(19 00 11)	(19 01 00)	2
	"							19 01 50	19 03 [illegible]	
	"							19 05 32	19 07 22	
	"							19 08 [illegible]	19 10 45	
20642	ε Cyg.	1950 20 44 2	1950 +33 47	"	"	"	"	19 20 20	19 20 36	
	"							19 22 00	19 22 32	
	"							19 23 22	19 24 17	
	"							19 24 50	19 26 12	
20643	σ Peg	1950 22 49.8	1950 +09 34	"	"	"	+13.0	19 36 27	19 37 22	
	"							19 37 66	19 37 75	
	"							19 44 27	19 47 15	
	"							19 47 [illegible]	19 51 60	
20644	HD 205027	1900 21 27.3	1900 +0 34	"	"	Set .016	+12.8	20 04	20 56	
20645	+4° 4762	1900 21 49.1	1900 +4 30	"	"	"	+12.3	21 00	23 36	
20646	HD 205700	1900 21 32 0	1900 +19 05	"	"	Set [illegible]	+12.5	23 43	00 18	

Dome Temp.
Focus
Dome Temp.
Hour Angle End

Dome Temp. 24° focus 12.936 changed to 12.946 before beginning to observe

Transparency Conditions Good.

Focus.....

Dome Temp.....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
					8/6	Set 0		
		0	4.90	G8		4 Stand Lumi.	49	
						6	70	
						8	110	
00 53E	0 6 17					10	136	
		0	3.64	K0		1 Stand Lumi		
						3		
						5		
01 29E						7		
		0	572	F7		1 Stand Lumi.		
						3		
						5		
						7		
03 09E	0 9 32							
0 45E	+0 47	0	7.9	G2	1-1-1	Set 2	High Velocity ← Spectrograph Motor apparently stopped working, Rebuilt and	strong
1 33 W	+4 47	0-1	9.9	G2	1-1-1	Set 8	" " 22 35 - 23 00	strong
2 33 W	29 18	0-1	8.21	G0	2-2-2	" 2	A Cn.	

Date Sep. 22 - 23 cont'd Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J	Hour Angle End
		1950	1950								
206 H7	ν And	01 33.8	+41 0q	1-12½	103a-0	.006	+12.0	00 12 26 27	00 12 24 58	3	
								00 12 27 25	00 12 28 25		
								00 12 28 58	00 12 30 38		
								00 12 30 57	00 12 33 27		1 11 E
206 H8	α Tri	01 50.2	+29 31	1-12½	103a-0	.006	+12.0	00 12 29 31	00 12 47 41	4	
								00 12 50 02	00 12 52 35		
								00 12 50 54	00 12 51 46		
								00 12 52 07	00 12 55 27		0 07 E
206 H9	α Ari	02 04.3	+23° 13′	1-12½	103a-0	.006	+11.8	00 12 59 37	00 13 01 43	1	
								01 13 00 70	01 13 04 30		
								01 13 00 01	01 13 01 31		
								01 13 02 00	01 13 02 00		1 48 E
206 J0	16 Per	02 47.4	+39° 0′	1-12½	103a-0	.006	+11.7	01 13 10 53	01 13 11 3	2	
								01 13 11 32	01 13 12 12		
								01 13 12 31	01 13 13 51		
								01 13 14 12	01 13 15 52		1 42 E

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
		~1	11.74	F8 V		Int	Lt Luminosity	30	Strong
						3		60	Very strong
						5		100	"
1 11 E						7		150	"
	2 18	~1		F6 V		Int		20	Strong
						3		30	Very strong
						5		50	"
0 07 E						7		80	"
		1	3 30	K2 III		Int		10	Strong
						3		20	Very strong
						5		40	"
1 48 E						7		60	"
		1	11.55	F2 III		Int		20	Strong
						3		40	Very strong
						5		80	"
42 E						7		160	"

Date Sep. 22-23 cont'd Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle Ind
3065	36 Per	03 25	+45° 53	1-12	2a-D	2.05	+11	2 03 05	2 04 35		
								2 05 07	2 07 37		
								2 08 37	2 12 40		
								2 15 38	2 22 45		1.16 E

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions .....

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
					5.63	F40		Set 1 1m 30	Fog starting
								3 2m 30	"
								5 3m 30	"
		1 16 E						7 5m 0 Shutter closed	"
								Sky clouding over completely	
								3 P.H.s loaded + 4 H. on M.	

Date Wed.-Thurs Sept 23-4, 1953 **Observer** H.o. - Hr **Julian Day** 2434644

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20652	HD 192031	20 07.7	-15° 43	I 12½	E103aO	Sit .016	14.7°	19h 03m	20h 30m	4	2h 18W
20653	BD +26° 3578	19 28.4	+26 11 07	"	"	"	14.6	20 35	22 30		0h 15W
20654	HD 224383	23 [illegible]	-10 12	"	"	"	14.5	22 37	23 05	1	2h 17E
20655	HD 1368	00 12.7	-00 11	"	"	"	14.4 14.1	23 13	[illegible]	1	[illegible]
20656	+53° 104	00 31.2	+54 05	"	"	"	13.9	00 44		2	
							[illegible]	cont'd		11	
20657	A.G. [illegible]	06 55.3	26 [illegible]	"	"	[illegible]	14.1	[illegible]	0452	3	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	"	"	"	14.0	[illegible]	[illegible]		

Sept. 24 Had the secondary down while setting telescope ran it down and dried with heater. Covered secondary and waited. Started drawing over the later when uncovered again. Then haze and clouds. Primary OK with heat on.

Dome Temp. 55°F

Focus 12.946

Dome Temp. t+1

Transparency Conditions Good – (Some Haze.)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10h 20m	00h 13m W	-15° 35'	00-0	9.4	G-8	1-1-1	Set 2 Roman High Velocity Field agreed with 20633!	
22 30	0 52 W	+26 18'	00-0	9.74	F2	1-1-1	Set 8 " " " " - Plate reading	
1	0 57 E	-09 55	0	8.5	G2	1-1-1	Set 2 " " " " Plate loaded	
	00 11 W	+00 05	0	9.4	G0	1-1-1	Set 8 " " " " - Roast Heating Sp.	
			0!	9.3	A0	1-	" 2 " " " Plate after	
	03	54 23	"	*	"	1+1	" 1 " " " +	fine.
	0212 E		1				→	
						8/6	*	

3 P.M.
H. & M.
Plate Marked

	HC	SC	HEW	STEW	S	SW	HE
Sept 24	-2.5	+20.6	-18.0	.0 m	-9.4	+22.5	+19.2

Sep. 25/26. Clear at 4 a.m. But too damp to observe. WL.

Date Sat-Sun Sept. 26/27 Observer Mr Hr Ho Julian Day 2423647

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20659	H0224983	23 52.3	-10 12	I 12½	F103a-O	Set .016	17.8	21:28	26 40	+	E
	Focus Test	5.7 R				.014					

Dome Temp.
Focus 12 +
Dome Temp.

Dome Temp. 58°F

Transparency Conditions Poor - Some light cloud.

Focus 12.946

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 11E	-09 55'	0	8.5'	G2	1-1-	Set 2 Off between 21:50 - 22.07 - Oil in gear stuck. Clouded in - 7/8 Used comparison. Field as on 284383	f...
					5/2 2	Set 9 all Light	
						2 P H - Plates needed	

191

Date Sund.-Mond 1953 Sept 27/28 Observer Wm - Hs Julian Day 2434648

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20 660	BD +26° 3572	19h 28.m4	+26° 21′	I-125	103 a O	0.076	+18°.8	19h 2m	21h 2m	1	1h 47m
20 661	HD 20 50 37	21h 27.3	+ 0° 34′	"	"	"	+18°.5	21h 10m	22h 25m	1	1h 4m
20 662	HD 21 30 14	22 23.4	+16 46	"	"	"	+19°.5	22 34	23 0	2	0h 4
20 663	HD 22 43 83	23 52.3	−10 12	"	"	"	+18°.?	23 8	23 14	1	1h 44
[illegible]	3765	[illegible]	[illegible]	"	"	"	17.7	00 24	[illegible]	2	[illegible]
[illegible]	"	[illegible]	[illegible]	"	"	[illegible]	17.2	00 42	[illegible]	1	[illegible]
[illegible]	+50° 1557	[illegible]	[illegible]	"	"	[illegible]	17.—	01 45	[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	"	"	[illegible]	17.1	[illegible]	[illegible]	[illegible]	[illegible]

Dome Temp. +59° F

Transparency Conditions good

Focus 12.946

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 49m W	+26° 17′	0	9.74	F2	1-1-1	Set 2 Roman Right Vel.	Occasionally scattered clouds. Driving clock much too slow; compensation only by nearly continuous tap of finger to stem motion.
1h 5m W	+ 0 42	0−	8.9	G2	1-1-1	Set 9 " " "	
0 45 W	+17 0	0	8.52	K0	1-1-1	Set 2 Stand. Vel.	
0 28 W	− 9 56	0+	8.5	G2	1-1-1	Set 8 Rom. Rt. Vel.	temp. control reset at beginning of exposure
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
0 57 W	[illegible]	0	[illegible]	[illegible]	2-2-2	" 8 " " "	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

	HE	SC	NOW	SOW	SW	S	ME
Sept 28	−6.2s	+16.5s	−5.7s	−3.6=1m	+11.0s	−12.5s	+24.5s

193

Date Mon. Sept. 28-29/53 Observer L- [illegible] Julian Day 2434.649

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20668	A.G. 11332	20 23.3	27 44	I-12½	E 103a-O	set .008	+17.8	19 10	20 22	1	[illegible]
20669	H.D. 195216	20 24.9	27 31	"	"	"	+17.8	20 25	21 17	1	[illegible]
20670	" 195273	20 25.2	26 36	"	"	"	+17.7	21 21	21 47	2	[illegible]
20671	A.G. 11970	20 54.2	30 14	"	"	"	+17.8	21 50	23 10	2	[illegible]
20672	" 12707	21 32.3	29 13	"	"	"	+17.8	23 14	00 04	3	[illegible]
20673	H.D. 5765	00 35.3	39 40	"	"	"	17.6	00 11	[illegible]	[illegible]	[illegible]
20674	" 236957	02 05.5	58 35	"	"	"	17.9	00 [illegible]	[illegible]	[illegible]	[illegible]
20675	" 237019	02 15.7	60 03	"	"	"	17.7	02 19	[illegible]	[illegible]	[illegible]
20676	" 5765	00 [illegible]	35 14	"	"	"	18.7	04 [illegible] *	[illegible]	[illegible]	[illegible]
		2	2			0.76					

Dome Temp.
Focus 12
Dome Temp.

Dome Temp. +64°F

Focus 12.946

Dome Temp.

Transparency Conditions Hazier just after sunset

194

Lost 10 mins. finding star in hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 08 W	27 54	1	9.?	G5	2-2-2	Set 2. A.C. 25 S. prec. of double	
1 02 W	27 40	1-0	8.68	K5	2-2-2	Set 8. "	
1 32 W	26 45	1-0	8.09	K0	2-2-2	Set 2 "	
2 26 W	30 27	1-0	9.?	G0	2-2-2	Set 8 "	
2 42 W	29 25	1-0	8.5	G5	2-2-2	Set 2 "	
[illegible]	39 55	1-2	[illegible]	K5	2-2-2	5 Std. Vel.	
[illegible] W	55 55	2	[illegible]	[illegible]	[illegible]	2 Mott. Emp.	
[illegible]	61 17	0	[illegible]	[illegible]	[illegible]	7 "	
[illegible] E	35 07	[illegible]	[illegible]	K0	2-2-2	2 A.C. 25 Difficulty W	
					[illegible]	3	

[illegible] Hour M.

195

Date Tues Sept 29-30/53 Observer Bo Hd Julian Day 2434650

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20677	HD 198273	20 44.1	-9 01	I-12	E1030	016	16.7	19 31	20 21.	1	E 102
20678	BD 26° 3578	19 28.4	+26 01	"	"	"	16.4	20 29	22 68	1	W 2 9

Dome Temp. 56F

Transparency Conditions Clearing after sunset. 196

Focus

Dome Temp.

Reading Time E.S.T.	P.E.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 21	1	E 10m	−9 51	0	9.0	G_2	1-1-1	Set 2 Roman Hi Vel.	1
22 58	1	W 2 49	−26 17	0	9.74	F_2	1-1-1	" 8 " " " " Vinyl but tel. 3 hrs went to preclude flexure clouds during last ½ hour	good
								Clouds pouring above 22 45	

	HC	SC	UTC	STC	S	SW	HE
Sept 30	-8.0^s	$+19.5^s$	-0.2^s	$+.1^m$	-24.0^s	$+13.5^s$	$+21.2^s$

Date Wed-Thurs Sept 30-Oct 1 1953 **Observer** O – H v **Julian Day** 2434651

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20679	HD 154942	17 03.5	+28 16	J-12	E103a-O	Set .008	+19.7	18 48	19 24	2	[illegible]
20680	HD 160508	17 35.2	+26 49	"	"	"	+19.7	19 27	20 03	2	[illegible]
20681	+4° 4762	21 49.1	+4 30	"	"	Set .016	+19.4	20 11	21 51	3	[illegible]
20682	HD 1368	0 12.7	−0 11	"	"	"	+19.7	21 57	22 47	3	[illegible]
20683	HD 3567	0 33.5	−8 51	"	"	"	+19.0	22 53	00 13	4	[illegible]
20684	" 3765	00 35.3	3 9 40	"	"	"	18.9	00 21	00 43	4	[illegible]
20685	"	"	"	"	"	"	18.8	00 45	01 33	1	[illegible]
20686	" 4268	00 40.0	37 25	"	"	"	17.3	01 41	02 5[illegible]	1	[illegible]
20687	" 6286	00 57	26 04	"	"	"	18.2	03 03	04 03	2	[illegible]
20688	A.G. 11 43	02 01.9	29 09	"	"	"	18.0	04 09	05 2[illegible]	2	[illegible]
	Bem	Test	O. G.								

Dome Temp. +62° F
Focus 12.946
Dome Temp. +50

Transparency Conditions Good (haze on objective)

198

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
2h 38m W	+28 11	0	8.14	K0	2-2-2	Set 2	AG-25 Taken 3h 30 W Apparent Elevation at beginning	good
2h 46 W	+26 47	0	8.23	G0	2-2-2	" 8	"	good
0 19 W	+4 45	1−	7.9	G2	1-1-1	Set 2	High Velocity.	fine
0 08 E	+0 06	1+	9.4	G0	1-1-1	" 8	"	fine
0 02 E	−8 35	1−	9.7	F4	1-1-1	Set 2	"	fine
0 03 5 W	39 56	0	8.52	K5	1-1-1	" 8	Std. V=1.	fine
0 1.6 W	"	0	"	"	2-2-2	" 2	" "	fine
0 3.1 W	27 41	0-1	7.0	G5	2-2-2	" 8	A.G. 25	good
0 3 2.1 W	26 19	0-1	8.61	G0	2-2-2	" 2	" "	good
0 3 7.1 W	27 21	0	8.93	G5	2-2-2	" 7	" "	good
					8.6	" 9	center to ri	

2 Pairs + 8

Total 11

Date Thurs Oct. 1-2/53 Observer L-H r Julian Day 2434652

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20689	H.D. 191590	20 05.6	29 26	I-12½	E-103A0	set .008	+18.8	18 50	20 00	3	0 15 W
20690	AG 11471	20 29.4	25 30	"	"	"	+18.7	20 03	20 43	3	0 35W
20691	HD 197020	20 35.9	25 41	"	"	"	+18.6	21 07	22 01	4	1 47 W
20692	" 197395	20 38.3	29 54	"	"	"	+18.6	22 10	23 30	4	3 14 W
20693	" 7308	01 08.2	25 42	"	"	"	+18.7	23 37	00 13	1	
20694	" 18325	02 51.6	-9 19	"	"	"	19.0	00 51	02 03	1	
20695	" 243927	05 21.7	33 15	"	"	"	18.8	0220		2	

Dome Temp. +
Focus 12.9
Dome Temp.

Dome Temp. +63°F Transparency Conditions Good 200

Focus 12.946

Dome Temp. 50 Mc.Rae with 3 yr. M+P. Showed M15, with 74".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 00 3	0 15 W	29 34	0	8.84	K_2	2-2-2	Set 2 A.G. 25 flexure	fair
20 43 3	0 35 W	25 40	0	8.19	G_5	2-2-2	Set 8 "	fair
22 01 4	1 47 W	25 52	0	8.51	G_0	2-2-2	Set 2 "	fair
23 30 2	3 14 W	30 06	0	8.61	K_2	2-2-2	Set 8 "	fair
00 15 1	00 03 E	25 58	0	8.83	K_2	2-2-2	Set 2 "	fair
1 48 1	00 07 E	29 31	0	8.19	G_5	2-2-2	" 8 " [illegible]	good
2 [illegible]	2 02 W	33 25	2	10.5	K_2	2-2-2	" 2 Matt. + 0312 Power off 2m	Too strong
						8/6.	" 8	slight

2 PH +4.

Date Fri) Oct 2-3/53 Observer Ho - HK Julian Day 2434653
Sat.)

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle Ind
20696	HD 197514	20h 39m.1	+26° 54'	I-12½	E103aO	1st .008	18.8C	20h 33m	21h 33m	3	
20697	HD 1368	00 12.7	-00 11	"	"	1st .016	20.0	21 41	22 50	4	
20698	HD 3567	00 33.5	-08 51	"	"	"	19.5	22 55	00 45		
20699	HD 8779	01 21.4	-00 55	"	"	"		00 53	00 59	1	
20700	"			"	"	2nd .008	19.1	01 01	01 12		
20701	HD 26372	04 05.1	+26 15	"	"	"	19.5	01 03	01 12	3	
20702	HD 54370	07 03.5	+26 40	"	"	"	19.5	01 46	02 03	4	
20703	HD 55080	07 16.4	+26 40	"	"	"	19.5	03 20	03 42		
20704	HD 62657	07 38.9	+26 18	"	"	"	19.3	04 12	05 01	1	
20705	HD 69714	08 05	+25 08	"	"	"	20.5	05 09	05 35		
	From Sol. Ø I-D.										

Dome Temp. 63°F

Focus 12.946

Dome Temp. 61°F

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01h 20m W	+27° 05'	0	8.72	M3	2-2-2	Set 2; AG; Starting delayed for repair of R.A. clamp.	good
	0 58E	+00 05'	0	9.4	G0	1-1-1	Set 2, High Velocity (N.R.)	fair
	0 35W	-05 24	0	9.7	F4	1-1-1	Set 8, " " " "	poor
		-00 37	1	7.5	K0	1-1-1	2 Find velocity	poor
	0 17W		1			2-2-2	8 " "	fair
	1 07E	+16 23	1	8.93	G0	1-1-1	5 AG 25	good
	1 35E	21 16	1	9.44	K0	1-2-2	2 " image unstable	fair
	1 36E	16 23	1-2	9.40	K0	1-2-2	9 "	fair
	1 38E	16 12	2	9.98	F5	1-2-2	1 "	fair
	1 41E	14 37	2	9.97	K0	1-2-2	7 "	fair
						5/6	10	weak
							MC SC MTW STW S SW ME	
							Opt 3 -9.3 +24.9 -29.5 -.3m -.5m +15.3 -14.2	

Date Sat-Sun Oct. 3-4 1953 Observer Mo Julian Day 2434 654

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20706	HD 198198	20 43.6	+29 16	I-12½	E103-a-O	Set 0.008	+20.0	22 11	23 01	λ	2.47W
	Focus Test	O.T.B.				"	+20.0				

Dome Temp. +63°F

Focus 12.946

Dome Temp. +63°F

Transparency Conditions Not good

Sat Oct 3. 200 visitors shown ring nebula - Mo

204

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 01	2 47 W	+29 26	0-1	8.33	Ko	2-2-2	Set 2 AG 25 Star almost invisible during last 5 min.	Trash
						8.6	" 8 Completely overcast 23:10	all right
							4 pH loaded, 8 plates in box in dome	

205

Date Sun/Mon Oct 4/5, 1953 **Observer** Bk – Hr **Julian Day** 2434655

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20707	H.D. 195228	20 43.0	+26 02	I 12½	E:03-a-O	set CCS	+15°7	18 50	20 [illegible]	1	[illegible]
20708	H.D. 199744	20 53.9	+28 53	"	"	"	17.1	20 03	21 13	1	[illegible]
20709	H.S. 12 015	20 57.5	+26 E1	"	"	"	16.9	21 17	22 27	2	[illegible]
20710	H.D. 200425	20 58.3	+25 16	"	"	"	17.3	22 53	23 [illegible]		[illegible]
20711	H.D. 240165	22 59.0	+56 29	"	"	"	17.3	02 [illegible]	03 [illegible]	3	[illegible]
20712	" 265134	06 45.9	15 41	"	"	"	17.1	03 32	05 [illegible]	"	[illegible]
20713	" 65583	07 54.3	23 31	"	"	"		05 11	05 37	4	[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. 54°F

Focus 12.946

Dome Temp. 46

Transparency Conditions Good ... threatening ... in S.W.

206

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11 E	26 12	0	8.61	K5	2-2-2	2 AG 15	good
0 52 E	29 05	0	8.84	K0	2-2-2	8 " Flexure	fair
2 23 W	27 02	0!	8.91	G0	2-2-2	2 "	fair
3 44 W	25 58	0	9.07	G5	2-2-2	8 "	fair
4 25 W	56 57	0	10.0	Bcn	2-2-2	2 Matt. Cir. Two bad identifying [illegible]	bad
0 10 E	13 40	0	9.3	Oyn	2-2-2	8 " "	fair
0 15 S E	29 21	0!	7.50	G7	2-2-2	5 STAV [illegible]	good
					8/6	" 4 [illegible]	all right

1 PH + T

[illegible]

Set 2	-10.7	+28.0	+33.2	+.4	-1.5	1.1	-16.5
7	-12.0	+21.1	-22.2	-.4	-2.9	+23.1	-17.2

Wed Oct 7 - Clear only for very short intervals during 1st half. - Ho.

207

Date Thurs. Fri. Oct 8-9, 1953 **Observer** O - H **Julian Day** 2434659

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
						Set	?				
20714	HD 198198	20 43.6	+29 16	1-12	E103a-O	008	+11.3	18 55	19 19	1	0 31 E
20715	HD 198313	20 44.4	+28 26	"	"	"	+12.3	19 22	19 54	1	0 01 E
20716	HD 199221	20 50.7	+27 42	"	"	"	+12.3	20 00	20 16	2	0 15 W
20717	HD 201490	21 04.9	+29 58	"	"	"	+12.4	20 20	20 40	2	0 34 W
20718	HD 222317	23 34.4	+27 41	"	"	"		20 47	20 59	3	0 28 E
20719	NGC 752, #300	01 52.9	+37 20	"	"	"	+12.2 +11.7	21 18	0 04	4	1 00 E
20720	HD 17674	02 45.1	+29 52	"	"	"	+12.5	0 10	0 22	3	0 37 E
20721	HD 32835-6	05 00.9	+26 52	"	"	"	12.2	0 33	01 11	1	0 00 E
20722	AG +26°606	05 35.6	+26 13	"	"	"	11.9	01 22	01 55		0 43 E
20723	H.D. 44615	06 12.6	+29 01	"	"	"	11.8	03 06	03 36		0 44 E
	Foc. Pl.			Obs.							

Dome Temp. 50° F
Focus 12 946
Dome Temp. 45

Transparency Conditions Good until 23:00

208

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 31 E	+29 26	2	833	K0	2-2-2	Set 2 AG 25	fair
0 01 E	+28 37	2+	865	G5	2-2-2	8 "	fair
0 15 W	+27 53	2+	830	G5	2-2-2	2 " Hr ∠, δ, field check. Shortened. Seems faster light exposure	v stormy
0 24 W	+30 12	2−	805	G0	2-2-2	8 "	fair
2 18 E	+27 59	2+	747	G0	2-2-2	2 "	v stormy
1 00 E	+37 32	2-3	9.99	F	2-2-2	Set 2 Clusterprogramme (23 00 Hard hazy, cirrus and Mist	fair
1 34 E	+30 05	2	764	G5	2-2-2	" 8 AG 25	fair
0301 E	+26 55	2	851	A-G	2-2-2	" 2 "	fair
0154 E	26 13	0-1	9.0	M0	2-2-3	" 8 " 2222 Hazy	v bad
0152 E	24 00	3!!	859	G0	2-4	" 2 " 2222 Transp. very poor	v stormy
					3/6	" 9 2222 MUCH WORSE!!	v bad
						Extinct. 2 = 1.3 Mag	
						2 P.H. Plates Nos 1	
						Hour M-	
						Obs	MC −12.8	S −33.5	NW −50.2	SW −51.7	S +26.8	S −4.0	MB −1.7

Date Fri-Sat 9-10/53 Observer Hd- Julian Day 2434660

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20724	V 451 Oph	18 24.5	+10 49	I-25	E103a O	012	14.5	20 37	21 37	3	1 45 E
20725	NGC 752 # 295	1 52.5	+37 22	"	"	016	14.1	22 06	00 30?	4	0 35 E
	Focus Test					0	T B				

Dome Temp.
Focus Set
Dome Temp.

Cloudy Till 2015

Dome Temp. 52 F

Focus Set 15.617

Dome Temp.

Transparency Conditions

Oct 9 Changed to 25" camera 12½ was Focus 12.946 Filt 20.35 25" is Focus 15.600 Filt 23.17

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 4 05	+10 53	1	7.9	A0	3-3-3	set 2 Ecl Bin. set first 4 low w 2 avoid flare Dark split spic. Temp went up Something wrong Field in finder very confusing and meter is typical clinches it. Convex dec. Quick button rarely works.	good
	0 35 E	37 37	3-2	10.2		2-2-2	" 2 O's prog.	good
						8/6	Clouds from 00.00 on all night	
							star gone at 00.30	
							Closed up at 2.30	
							sky thick.	
							4 Phs loaded + 8 H on M	

211

Date Mon-Tues Oct 12-13/53 **Observer** Ho-H r **Julian Day** 2434663

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20726	V #51 Opd	18 24.5	+10 49	I 25"	E103a0	Set 008	11.9	18 41	20 00	1	5h 39M
20727	NGC 752 #311	01 52.9	+37 20	"	"	Set 016	11.9	20 19	0h 31	2	2 15M
20728	MWC. 23	04 ~~04.1~~ 10.1	45 55	"	Hi-spd.	008	10.0	0h 46	0h 86	1	5h 1M

Dome Temp. 48 F
Focus 15.592
Dome Temp. 37

Transparency Conditions Good
(9 Pleiades is visible to HO)

212

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 39 W	+10 49	00	7.9	A0	4-4-4	Set 5 Ecl. Rim.	Cirrus wood. Poor
	1 43 W	+37 35	0-0-1	10.1		2-2-2	Set 5 0's Mag; Seeing reached 0-1; 23 10	
	22 1 W	46 07	0-1	7.6	B(3)ne	6-6-6	" 5 00 25 Few Clouds in S, SW, & NE	Poor
						20/15	" 9.	Poor
							P.H. #3 + 7 loaded E 103 - 2 - C. +8 P	
							" " 2 loaded Aligned. Plate developed	
							MC S3 HTW STW S5 SW HE	
							Set 13 -13 9 +38 0 +23 5 +4 -7 2 +5 6 +12 8	

213

Date Tues. Oct 13-14/53 Observer L-Fk Julian Day 2434664

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
20729	V451 Oph.	18 24.5	+10 49	I-25	F-103aO	set .008	+11.7	18 34	20 38	5
20730	NGC 752, 213	01 51.6	+37 17	"	"	.016	+11.7	22 25	02 55	4
[illegible]	γ Tauri	[illegible]	[illegible]	"	"	"	-12.5	[illegible]	[illegible]	1
[illegible]	δ Tauri	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	3
[illegible]	ε Tauri	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	4
[illegible]	α Tauri	[illegible]	[illegible]				12.4	[illegible]	[illegible]	1

Dome Temp.
Focus 12
Dome Temp.

Hour Angle End

Dome Temp. +50°F

Focus 15.598

Dome Temp. 40°F

Transparency Conditions Good

R.A.S.C.'s showed M15 with 7¼"

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3 23W	10 51	0	7.9	Ao	4-4-4	Set 5 Eclipsing Bin.	fair
2 12W	37 34	0-1	10.	?	2-2-2	Set 5 Oke's programme Flexure	fair
			4.30	K-M		put 2 [illegible]	fair
					2-2-2	5	fair/stormy
0 13W	15 20	1				8	stormy
			4.72	K-G		2	fair
					2-2-2	5	fair/stormy
0 29W	21 57	1				8	stormy
			4.58	K-G		2	fair
					2-2-2	5	fair/stormy
0 40W	14 55	1				8	stormy
			4.64	K-G		2	fair/cloudy
					2-2-2	5	fair
0 55W	16 54	1				8	stormy

215

Date cont. Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20735	β Geminorum HD 62509	07 29.2	+28 4	I-15	E 103-a-O	.016	+19 D	04 28 [illegible]	04 [illegible]	3	
								04 30 00	04 30 04		
								04 33 37	04 32 [illegible]		21 M
20736	HD 57286	07 15.9	-08 15	"	"	.008	19 5	04 55	05 41	4	1 [illegible]
	Focus Test	0 T.B.									

Dome Temp.
Focus
Dome Temp.

Dome Temp.....

Focus.....

Dome Temp.....

Transparency Conditions.....

Ending Time U.T.	P.A.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				1	L-E	KO I			fair
							3-3		fair Emy
		01 32E	2 3 07					8	
		0 17E	-08 22	1-0	S I	K5 III	2-2-2	all 2	fair
							2/6	10	all right

all right

Date WED OCT 14-15 1913 Observer AR-HS Julian Day 2434.665

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20737	MWC 320	19 41.3	+5 44	I-25	103a-O	.008	+14.0	19 03	20 03	1	
20738	NGC 752-208	1 52.0	+37 12	"	"	.016	+14.1	20 23	01 23	3	
20739	HD. 29587	04 34.5	41 57	"	"	.016	14.2	01 33	01 54	1	
20740	"	"	"	"	"	.008	14.2	01 56	03 00	1	
	~~MWC 93~~										
	Focus				O.B.						

Dome Temp. +53°F

Focus 15.627

Dome Temp. +2.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 33 W	+5 51	1+	8 5	RSpe	4-4-4	Some clds at 19 [illegible]	Lucky
5049W	+37 24	1	10.0		2-2-2	Clouds in E & W hrz in the west [illegible]	[illegible]
0124E	42 01	1-2	7.85	G-2	2-2-2	[illegible]	[illegible]
0032E	"	0	"	"	4-4-4	" 7 02[illegible] Clear. Patches NE, E, S. Remainder clouds & haze 03 10 Hyp. [illegible]	[illegible]
					16/10	" 9	
						P.H. #2 low 1-1 H, - Spread	
						P.H. # 1, 3, 4 " E 103-a-0	

219

Date Thurs Oct 15-16/53 Observer Hd - Hr Julian Day 2434.666

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
20741	V451 Oph.	18 24.5	10 49	I-25	E103aO	012	16.9	18 30.	19 30	3
20742	MWC 317 HD 183143	19 23.0	18 05	"	"	012	16.9	19 34	20 04	4
20743	MWC 352 HD 192445	20 09.8	36 02	"	"	008	16.8	20 10	20 32	4
20744	MWC 347 HD 195592	20 27.2	43 59	"	"	008	16.2	20 36	20 58	1
20745	MWC 397 HD 218393	23 02.6	49 40	"	"	008	16.1	21 04	21 22 20	1
20746	MWC 353 HD 198478	20 45.5	45 45	"	Hyperd	008	16.1	21 26	21 32	2
								21 32	21 36	
								21 36	21 38	
20747	MWC 360 HD 200310	20 57.6	45 47	"	Hyperd	008	16.1	21 43	21 51	4
								21 52	21 56	
								21 57	21 59	
20748	MWC 381 HD 208682	21 52.9	64 52	"	Hyperd	008	16.8!	22 07	22 23	2
20749	NGC 752 #209	1 51.2	37 00	"	E103aO	016	17.0	22 47	[illegible]	3
20750	MWC 56	04 34.5	+13 17	"	[illegible]	[illegible]		[illegible] 00	03 04	4
	"	"	"	"	"	"	17.1	03 05	03 13	"
	"	"	"	"	"	"		03 14	03 30	"

Dome Temp. 61F

Focus 15.662

Dome Temp.

Transparency Conditions Hazy

220

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 2 22	10 52	1-0	7.9	Ao	3-3-3	Set 2 Red bar.	good
	W 1 57	18 10	0-1	6.9	Bgsex Bsne	3-3-3	set 2 Be prog.	good
	W 1 39	36 12	0	7.1	Bene	4-8	" 8 " "	fine
	W 1 48	44 08	0-1	7.2	Bise	4-4-4	" 2 " "	Heat not coming on. Belay need help.
	E 0 25E	49 55	1	6.8	Ave	4-4-4	" 8 " "	Lead to reset temp control
			1	4.9	Bsed	4-8-4	" 1 Be Prog.	
			1			16	Set 5	fair
	W 2 10		1			16	" 9	
		45 59	1	5.2	Bsne	8-	Set 1 Be Prog.	
						16	" 5	
	W 2 20					16	" 9	
	W 1 48	65 06	0	5.8	Bsne	8-8	Set 1 Belay System on 4 diff. sets of wires	
	W	37 16	0	9.25		2-2-2	" 2 Hunter Prog. Partly cloudy & gusty.	
	E		0	5.5	Bene	6-6	" 5 Be Prog.	
	W	-13 10	0			6-6-6	" 2	
	W					6-6-6	" 4	

221

Date O-T. 15/16 - 53 Cm. Observer - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
20751	MWC. 61	03 08	62 [illegible]	[illegible]	[illegible]	[illegible]	17.6*	03 41	03 53	1
20752	H.D. 30353	04 41.8	43 06	"	[illegible]	"	17.7	04 11	05 21	4
20753	" 26162	04 03.3	19 21	"	"	"	17.6	05 26	05 40	"

Dome Temp. 51°

Transparency Conditions Good

Focus

Dome Temp. 50°

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 12 W	62 13	0	6.5	B2c	6-6-6	Set 5 3c Pec. * Gal'y. Pair/ward.	fine
	0 1 56 W	43 10	1-2	8.3	Comp	4-4-4	" 5 Bet/ween *	fine
	0 3 54 W	19 36	1-2	6-15	K1	4-4-4	" 7 Set. var/.	fine
						16/16	" 7	focus ok
							P.H. #243 Hi Speed + 12	
							" #1-4 Exposure + 4	
							H M MC SC MM SM S SM IE	
							Set 16 -14.2 +48.0 +28.3 +.4m -7.0 +35.2 -10.0	

223

Fri Sat.
Date Oct 16/17-53 Observer Ho – Hv Julian Day 2434667

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20754	HD 208200	21h 49m.7	+43° 01′	I-12½	E103aJ	let .008	19.1°C	18 30	21 00	4	11h 32m
20755	#108, NGC 752	01 50.8	+37 32	"	"	"	19.1	21 15	23 15	1	01 16E
20756	HD 44615	06 17.6	+29 01	"	"	"	19.7	23 26	0 32	4	1E
20757	" 51690	06 53.3	25 22	"	"	"	19.3	00 46	01 46	4	"
20758	" 51689	"	25 23	"	"	"	19.0	01 49	03 19	1	1E
20759	A.G. 3682	06 55.3	26 32	"	"	"	18.7 18.7	03 25	04 05	1	1E
20760	H.D. 5-765	06 57.4	25 14	"	"	"	18.4	04 12	04 56	4	2E
20761	" 52101	06 54.8	29 54	"	"	"	18.6	05 01	05 34	4	2E
20762	" 65583	07 54.3	29 31	"	H. Spd.	"	19.0	05 41	05 57	5	3E

Focus Ref 023.

Dome Temp. 6
Focus 12.74
Dome Temp.

Dome Temp. 63°F Transparency Conditions Hazy

Focus 12.946

Dome Temp. 51

Oct 16 changed to 12½" camera 25" was Focus 15.662 Gilt 23.17 12½" Focus 12.946 Gilt 20.35

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
21 00	00h 32m W	+43° 15"	1	10.2	BOK	2-2-2	Set 5 Matthews Prog — some aurora. bad flexure	(fine)
23 15	01 16E	+37 48	1	9.6		2-2-2	Set 5 Okes Prog. - Heat control working well.	fine
	0419E	2257	1	8.9	Go	2-2-2	Set 2, A.G. " " not " ?	fine
	0?-1F	2518	0-1	8.8	G-0	2-2-2	" 7 " Southern ... plate. A...	fine
	0213E	"	1-2	9.4	G-0	2-2-2	" 2 "	fine
	0121E	2619	2	8.82	G-5	2-2-2	" 8 " A...	(2 [illegible])
	0010E	2510	2	8.86	K-0	2-2-2	" 2 "	strong
	0000 -	2946	2-1	8.63	G-5	2-2-2	" 8 "	fine
	0036E	2720	2-1	7.50	G-7	4-4-4	" 2 Sti. Vel.	fine
						2/15	" 9 c. at ... n.e.	

P.H #1 I.V.I. E 10 3 00 - 0 Plate No 14.

" #2 H. Speed

fi — M.

225

Date Sat-Sun Oct 17-18, 1953 Observer Bk O — Ink Julian Day 2434668

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.
20763	HD 187524	19 45.3	+28 20	I 12	E103a-O	Set .008	+19.8	18 15	18 32	1.
20764	HD 188036	19 48.1	+31 21	"	"	"	+19.8	18 38	18 52	1.
20765	HD 187462	19 45.0	+27 29	"	Hi Speed	"	+19.7	18 56	19 16	2.
20766	NGC 752 No. 205	1 51.2	+37 15	"	E103a-O	"	+19.7 +18.9	22 10	00 25	3
[illegible]	+10 US 52[illegible]	6 30.1	+29 25	"	"	"	18	01 39	01 07	4
20768	52101 ~~51934~~	6 54.8 ~~57.9~~	+29 54 ~~+29 55~~	"	"	"	18.8	01 15	01 [illegible]	[illegible]
20769	54497	7 11.9	+27 19	"	"	"	[illegible]	01 52	[illegible]	1
20770	63495	7 44.1	+29 59	"	"	"	19.0	[illegible] 28	03 03	[illegible]
20771	[illegible]	8 03.1	+25 51	"	"	"	[illegible]	[illegible] 15	03 [illegible]	[illegible]
20772	69312	8 11.2	+27 01	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
20773	[illegible]	8 37.0	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
20774	77444	8 57.4	+27 27	"	"	"	[illegible]	05 16	05 02	[illegible]
	Focus test	[illegible]								

Try focus 12.936

Dome Temp. +65°F

Focus 12.936

Dome Temp.

Transparency Conditions Faded out. Many cirrus

300-400 visitors shown M15 = Moon with 4"

Aurora at 21 + 22h - dark

226

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11 E	+28 28	1	8.0	A0	2-2-2	Set 2. K.A. With focus 12.946.	strong
0 28 W	+31 31	1	7.60	A0	2-2-2	" 8 KA. Focus 1 d 12 936 for this etc.	strong
0 55 W	+27 37	2	7.62	G0	4-4-4	" 5 KA	[illegible]
0 02 E	+37 31	3-4	10.30	F5	2-2-2	" 5 Cluster programme.	strong
4 [illegible] E	29 24	3	8.4	G0	2-2-2	2 L 2 +6.25	[illegible]
3 48 E	33 47	3	~~8.63~~ ~~5 6 5~~	G5 ~~K0~~	2-2-2	5 "	[illegible]
3 26 E	27 3	2	8.54	K0	2-2-2	2 "	
3 12 E	25 49	2	[illegible]	G5	2-2-2	6 "	fine
2 56 E	25 41	2-3	[illegible]	K2	2-2-2	2 " pending	[illegible]
2 41 E	27 12	2	8.68	K2	2-2-2	4 "	strong
2 12 E	27 22	2-3	[illegible]	K2	2-2-2	2 "	[illegible]
1 50 E	27 22	2	[illegible]	K2	2-2-2	7 "	fine
					[illegible]	9 .11	fine
						3 84 [illegible] " 2 [illegible]	

Date Sun-Mon Oct 18-19, 1953 **Observer** O- **Julian Day** 2434669

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20775	HD 185871	19 36.2	+44 12	I-12	E103-0	Set 008	+19.5	18 31	18 55	4	1 48 W
20776	HD 188035	19 48.1	+31 27	"	"	"	19.7	18 59	19 19	4	1 06 W
20777	HD 188995	19 52.8	+27 33	"	"	"	20.0	19 22	19 46	1	1 22 W
20778	HD 189316	19 54.3	+28 43	"	"	"	19.7	19 50	20 12	1	1 16 W
20779	NGC 752 No. 61	1 50.2	+37 15	"	"	.016	20.7 20.7	20 34	22 34	2	1 41 E
20780	NGC 752 No 110	1 50.8	+37 32	"	"	.008	20.7	22 40	23 41	2	1 15 E

Dome Temp. +60° F
Focus 12.936
Dome Temp. +55° F

Transparency Conditions Fairly good Some graininess.
23:00 a few cirrus
23:40 veiled

228

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 55	0 48 W	+44 20	0	7.96	K0	2-2-2	Set 2 K.A.	fair
9 8	1 00 W	+31 35	0	7.75	A0	2-2-2	8 "	fair
3 45	1 22 W	+27 42	0	8.0	A0	2-2-2	Set 2 "	fair
20 2	1 46 W	+28 51	0-1	8.0	A0	2-2-2	8 "	fair
37	1 48 E	+37 31	1-2	10.4	F5	2-2-	" 9 Cluster Programme. Arc compar 2s at setting 5	fair
-	0 41 E	+37 48	2	9.8	G8	2-2-2	" 2 " " Clouded at 23 25	weak

4 Ph. Graded exposures 0-3
Plates marked.

	N.	SC	NPec	S-Pec	Spec	S	NE
Oct 20	-15.2	-1.2	+4.5	.0	-17	-9.4	-9.5

229

Date Tue-Wed Eve 10/11 1953 Observer Bx - L Julian Day 2434671

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20781	BD+34° 3872 ~~HD 227764~~	20 02.4 ~~20 02.4~~	+35 03 ~~+34 38~~	I 10½	E 103-a-D	red .018	+19.5	18 32	20 28	1	
20782	195325	20 25.5 ~~20 25.5~~	+10 34 ~~+9 16~~	"	"	"	16.6	20 44	22 47		
20783	NGC 752, No 41	01 52.2	+37 21.4	"	"	red .016	19.6	21 04	23 54	2	
20784	NGC 752 No 41	01 50.0	+37 00	"	"	"	18.7	23 59	01 40	2	

Dome Temp. 60°F

Focus 12.936

Dome Temp. +54°F

Transparency Conditions good

230

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 12 W	+35 13	0	~~9.4~~	~~B0~~ cA0	2-2-2	Set 2, Time lost identifying the star Notice the large dec. difference!!	Lost
1 53 W	+10 44	0-1	6.0	B_2 II	2-2-2	8 - Matted in Focus	
0 21 E	37 41	1-2	10.40	F5	2-2-2	2 Clouds passing	
1 27 W	37 14	1-2	10.29	?	2-2-2	Set 8 Haze and light clouds from 01.00 star gone at 1.40. By 02.00 very heavy fog.	Poor
						2 P.H.'s loaded with E103a-o H or M plate needed.	

231

Date Wed - Thurs Aug 21-22 '43 **Observer** MR — H **Julian Day** 2434672

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20785	H.D. 194914	20 28.1	+14 08	I-12	Hi Speed	set .008	17.5	18:24	18.57	1	-1 3
20786	H.D. 194935	20 23.2	+14 38	"	"	"	17.5	19:04	19:40	1	-1 35
20787	NGC 752-206	1 51.3	+37 19	"	103a-O	set .016	17.2	20:00	0 [illegible]	3	-1 39
20788	" " - 75	01 50.3	37 28	"	"	"	17.3	00 19	0 [illegible]	3	-1 59
20789	H.D. 19500	01 43.6	25 36	"	"	008	17.1	02 57	0 [illegible]	1	-2 [illegible]
20790	" 51689	0653.3	25 28	"	"	"	17.2	33 55	0 [illegible]	1	-2 [illegible]

Dome Temp. 60.0

Focus 12.936

Dome Temp. 51

Transparency Conditions A little haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+0:13	+14 18	0-	7.7	A0	4-4-4	set 2	
	+0:55	+14 48	0	7.9	A0	4-4-4	set 8	
	-0:09	+37 35	0	10.48	F	1-1-1	set 2	
	0235W	37 44	1	10.0	?	1-1-1	" 8	
	1.16E	25 31	1	8.51	K0	2-2-2	" 2	
	0083W	25 16	0-1	9.4	G0	2-2-2	" 8	
						8/6	" 5	

Flexure

A.G.

" "

all right

4 P.H. +8

H — M.

233

Date Thurs-Fri, Oct 22-23 1953 **Observer** Ho — H Hd **Julian Day** 2434673

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20791	HD 175514	18 50.6	+09 13	I-12½	F103a0	Set .008	18.2	18 23	19 23	4	1½ 16
20792	BD+34° 3839 ~~HD 227016~~	19 56.2 ~~19 56.1~~	35 01 ~~35 02~~	"	"	"	18.1	19 28	20 24	4	2 11
20793	NGC 752-126	01 50.7	37 12	"	"	.016	19.0	20 47	[illegible]	1	
20794	H.D 29167	04 31.5	41 57	"	"	"	19.1	[illegible]	[illegible]	1	
20795	" "	"	"	"	"	.008	19.1	00 39	01 37	2	
20796	" 5101	0650.7	24 47	"	"	"	19.0	01 05	01 [illegible]	3	
20797	N.G.C. 752-17	01 50.4	37 06	"	"	.016	18.5 17.8	01 57	[illegible] 27	3	
20798	H.D 51806	0651.0	27 02	"	"	.008	17.7	04 36	[illegible]	4	
20799	" 52147	06 56.0	29 43	"	"	"	17.8	05 05	[illegible]	4	
	Bad	Lost									

Dome Temp. 61°F

Transparency Conditions Fair

Focus 12.936

Dome Temp. 51°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 2 16	09 16	0	8.9	06	2-2-2	Matthews * Set telescope too far W first to preclude flex.	
	W 2 11	35 10	0-1	~~8.8~~	~~06~~	2-2-2	" 8 Matthews *. * very red! check Matthews - something wrong.	
	0 0 10 W	37 27	1	10.51	F5	1-1-1	" 2 Jo dive [illegible]. Temperature bad!	
	0 15 E	4 51	0-1	7.55	G2	1-2	" 8 Stdy.	
	0 5 E	"	2-1	"	"	2-2-2	" 2	
	3 57 E	24 42	0-1-2	7.73	G5	2-2-2	" 6	
	0 21 W	37 23	2-3	10.40	?	1-1½-1	" 2 [illegible]	
	0 57 E	26 56	1-2	8.19	K0	2-2-2	" 2 A5 [illegible]	
	0 55 W	37 15	1-2	8.51	G5	2-2-2	" 6 "	
						5/6	" 5	

grumbling

"

Flexure

3 RH +11

11 - 2 AM

	MC	SC	MPW	SPW	S	SW	ME
Oct. 23	-16.3 s	-1.9 s	+9.8 s	+.1 m	-10.1 s	-11 s	-17.8

Sat. Oct 24 - Cloudy - Ho BK showed 200 visitors 74" and slides.

235

Date Sun-Mon Oct 25-26, 1953 **Observer** Ho - H **Julian Day** 2434676

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20800	HD 149881	16 32.4	+14 4[illegible]	I 12	E103a0	Set .005	13.5°C	18 17	18 37	1	4 01 W
20801	HD 188439	19 50.1	+47 34	"	"	"	13.5	18 43	18 55		[illegible]
20802	31° 3921	20 00.1	+31 52	"	"	"	13.5	19 04	19 14	2	[illegible]
20803	HD 194335	20 20.0	+37 10	"	"	"	13.3	19 47	19 53		[illegible]
20804	N.G.C. 752 # 218	01 52.0	+37 30	"	"	Set .016	12.9	20 05	00 15	3	[illegible]
20805	HD 44816	06 16.1	+28 57	"	"	Set .008	13.9	00 25	01 10	4	[illegible]
[illegible]	" 48591	06 39.1	29 28	"	"	"	13.8	01 16	01 58	1	[illegible]
[illegible]	" 52147	06 55.0	29 [illegible]	"	"	"	13.0	02 [illegible]	02 59	1	[illegible]
[illegible]	" 52765	06 57.4	25 14	"	"	"	13.6	03 03	03 39	1	[illegible]
[illegible]	" 56118	07 11.8	06 31	"	"	"	13.2	04 15	05 45		[illegible]
[illegible]	" 65583	07 54.3	37 31	"	"	"	13.0	05 49	06 01	2	[illegible]

Dome Temp. 54°F

Focus 12.936

Dome Temp. /

Transparency Conditions Hazy

New Bulb Needed in Spotting Room.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 01W	+14 33	0	7.2	B0.5 I	2-2-2	Set 2 Matthews Prog.	fair
0 01W	+47 41	0	6.7	B0.5 II	2-2-2	Set 8 " "	very fine
1 40W	+32 00	0	8.3	B0.5	2-2-2	Set 2 " "	fine
1 30W	+37 19	0	6.0	B2 II	2-2-2	Set 8 " " Temp Control?	very fine
0 19W	+37 44	1	10.52	F5	2-2-2	Set 2 Otis Prog. - 21 50 Clouds 21[53]-22[04]	fine
3.0E	28 51	1	8.6	K0	2-2-2	" 2 A.S.	fair
2.5E	29 31	1	8.4	G0	2-2-2	" 8 "	fair
2.5E	29 15	1-0	8.4	G5	2-2-2	" 2	fair
2.0E	27 07	0	8.6	K0	2-2-2	" 8	fair
2.0W	26 25	0	8.6	K0	2-2-2	" 2 Flexure	fair
2.0W	29 42	1	7.5	G7	2-2-2	" 8	fair
					S/L	"	fair

IPH Phot. Mod.

H - M

	MC	SC	HW	STW	S	SW	ME
Oct 29	-17.1[s]	-1.4[s]	+23.7[s]	+.4[m]	-12.9[s]	-4[s]	-20.5[s]

Date Thurs-Fri Oct 29/30, 1953 Observer RK – AF Julian Day 2433680

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20811	H.D. 188854	19 52.1	+46 14	I 12½	Hi-Speed	set .018	+9.8	18 16	18 40	2	
20812	189214	19 53.8	+26 59	"	"	"	9.9	17 45	19 09		
20813	189236	19 53.9	+26 57	"	"	"	9.8	19 11	19 43	3	
20814	19 1766	20 [illegible]	+39 58	"	"	"	9.7	19 45	[illegible]		
20815	19 2977	20 48.9	+25 46	"	"	"	9.4	20 24	[illegible]		
20816	20 1468	20 55.6	+27 55	"	"	"	9.2	20 54	21 [illegible]		
20817	NGC 752, No 1	01 49.2	+37 20	"	E103a-a-O	set .016	9.0 8.3	[illegible]	00 52	1	
20818	B.D. 47°782	03 06.1	47 52	"	Hi. Speed	.008	8.4	01 04	[illegible]	2	
20819	" 49°576	03 06.0	49 15	"	"	"	8.7	01 26	[illegible]		
[illegible]	" [illegible]	03 11.6	49 53	"	"	"		02 02	[illegible]		
								02 06	02 07		
							8.7	02 10	02 17		
20821	" 49° 900	03 11.7	49 26	"	"	"	9.2	03 02	03 13	1	
[illegible]	" 48° [illegible]	03 12.6	48 17	"	"	"	9.3	03 22	04 06		
20823	50° 738	03 13.1	50 37	"	"	"	9.2	04 13	04 37	1	
[illegible]	51° 725	03 16.5	51 25	"	"	"	9.2	04 41	[illegible]		

Dome Temp. 46°F

Focus 12.936

Dome Temp.

Transparency Conditions good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 00 45	46 34	0	7.2	A2	4-4-4	22 2 K.4. ring	
1 27 45	27 07	0	8.0	A0	4-4-4	" 8 " preceding	
2 " 05	"	"	8.4	A0	4-4-4	" 2 " following	
2 21 45	30 07	0	7.5	F5	4-4-4	" 8 "	
2 12 45	29 56	0	7.7	A5	4-4-4	" 2 "	
2 25 45	25 07	0	7.8	A2	4-4-4	" 3 " 0047 Cal. Rich	
0 14 W	37 16	0	10.4	K0	1-1-1	" 5 "	
0 25 W	47 59	0-1	6.7	G5	4-4-4	" 2 α Persei Cluster - 176	
0 100 W	47 28	0-1	7.2	B9	4-4-4	" 8 " " " - 212	
		0-1	4.2	B3	12	" 2 " " " - 383	
					12	" 5	
0 12 W	50 01				12	" 8	
0 12 W	49 31	0	7.8	A0	4-4-4	" 2 " " " - 386	
0 30 W	46 40	0	7.6	A0	4-4-4	" 8 " " " - 1x1	
0 36 W	50 52	0	7.0	B9	4-4-4	" 2 " " " - 1111	
0 3x W	51 37	0	7.7	A0	4-4-4	" 5 " Tolan	

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Date Oct 27-30/53 Cont'd **Observer** - Hv **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
20825	H.D. 66141	07 37.1	+0236	I-12½	Hi-Speed	.002		0545°	0547⁰⁰	2	
								0548°	0552⁰⁰	"	
							9.1	0552³⁰	0600³⁰	"	
	Focus			D.P.							

Dome Temp.....

Transparency Conditions 240

Focus.....

Dome Temp. 40°.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		+02 26	3	5.2	K3	12	1 STN V2.	
						12	4 "	
	=17W		c-1			4-H-4	7	Poor
						16/10	10 all right	
							P.H. # 3 + 4 loaded Hi Speed	
							20 H. Speeds.	
							12 Exposures	
							H. on M.	

Oct. 30	MC	SC	MTW	STW	S	SW	ME
	-18.8	-3.4	-16	-0	-14.6	+7	+18.7

Date Fri-Sat Oct 30-31, 1953 **Observer** MR – HS **Julian Day** 2433481

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20826	H.D. 2244	00h 21.2m	+56° 5′	12″	Hi-Sp.	.008	12.7	17:48	18:03	3
20827	H.D. 1658	00 15.8	+66 27	"	"	"	12.9	18:13	18:36	3
20828	H.D. 1026	00 09.5	+62 17	"	"	"	12.9	18:48	19:24	4
20829	H.D. 3519	00 33.1	+59 16	"	"	"	12.9	19:32	19:42	4
20830	H.D. 4947a	00 46.4	+68 20	"	"	"	12.9	19:51	20:26	1
20831	H.D. 4947b	"	"	"	"	"	12.8	20:27	21:02	1
20832	NGC752-69	01 50.3	+37 12	"	1030-0	.016	12.6	21:24	21:45	3
20833	BD 48° 906	03 17.3	+48 48	"	Hi-Sp.	.008	11.5 11.4	23.56	0	2
20834	" 47° 817	03 17.7	+47 35	"	"	"	13.4	0	0	
20835	H.D. 5[illegible]472	07 [illegible]	33 01	"	E[illegible]-0	"	13.5	01	02	1
[illegible]36	" [illegible]5437.0	07 03.5	26 40	"	"	"	13.5	0-19	0330	
[illegible]37	" 55080	07 06.4	26 46	"	"	"	13.3	0337	0347	1
[illegible]38	A.G. 38[illegible]8	07 07.6	[illegible]	"	"	"	15.0	0414	0	
[illegible]39	H.D. [illegible]5[illegible]3	07 34.3	27 31	"	H[illegible]-S, A	"	15.0	0533	0546	3

Dome Temp. +52°

Focus 12.936

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:04	+56° 22'	0-1	6.6	A0	4-4-4	Set 2 Mar. Cl. Prog.	v. stormy
3:25	+66 45	1	7.1	A0	4-4-4	" 8 " " " Dbl.	v. stormy
2:31	+62 33	1	7.7	A0	4-4-4	" 2 " " " Also Dbl. (highly comp.)	v. stormy
2:37	+59 34	2	6.7	A0	4-4-4	" 8 " " "	stormy
2:07	+68 37	2	7.9	A2	4-4-4	" 2 " " " Also Dbl! Bottom comp in 74" field (1/4 length) Equal brightness; 5th = 1/3 length	stormy
1:31	"	2	7.9	"	4-4-4	" 8 " " " Left & Top comp.	stormy
0:09	+37 24	2	10.55	F5	1-1-1	" 8 O's C.P. (10" in Set 2 & dist. verified by measure)	fair
[illegible]	+48 56	1-2	7.7	A0	4-4-4	" 2 [illegible]	fair
[illegible]	[illegible]	1	[illegible]	[illegible]	4-4-4	" 2 "	stormy
[illegible]	[illegible]	1	[illegible]	K2	1½-1½	" 2 A.C.	good
1:17 E	26 35	1	[illegible]	K5	1-1-1	" 8 " 225° [illegible]	fine
[illegible] E	26 37	1	[illegible]	K0	1-1-1	" 3 "	fine
[illegible] SW	26 37	2	[illegible]	G[illegible]	1-1-1	" 8 Sat. Orbit	fair
[illegible] W	29 30	0	[illegible]	G7	4-4-4	" 2 Sat. Orbit	fair
					14/20	" 8 [illegible]	[illegible]
						17 [illegible]	

Sat Oct 31 - Nov 1 about 50 meteors. Showed 14/15 with 74". Then cloudy

243

Date Tues-Wed Nov 3-4/53 Observer Hd- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
20840	V451 Oph.	18 24.5	+10 49	I-25	Ea 103a O	012	13.4	~~17 54~~ 18 00	19 22.	7	W 3.8 +
	changed back to		I-12	tilt	20.35	Focus		12.937			
20841	HD 193488	20 15.4	27 06	I-12	Ea 103a O	008	13.3	19 48.	20 48	3	W 3.04 +
20842	HD 194510	20 20.9	25 24	"	"	"	+13.5	20 52	21 48.	3	E 3.59

Dome Temp. 5
Focus 15.0
Dome Temp.

Dome Temp. 51F

Focus 15.615

Dome Temp.

Transparency Conditions Good

Oct 3 changed 12½" was {Filt 20.35 Focus 12.937} 25" is {Filt 23.17 Focus 15.624}

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
19 22	W 3 28	+10 53	0	7.9	A0	3-3-3	set 5 Edbin. set 3½ W to avoid flexure. Windy	fair
20 05	W 3 04	+27 16	0	8.57	(G5)	2-2-2	set 2 AG. I mist set to 4 h W. Had to re-set heat.	fair
20 35	3 59	25 34	0	8.33	G5-	2-2-2	" 8 AG. Clouds 21 20–21 35 again 21 48	fair

Dark of rain at 22 20. Few drops on mirror

	MC	SC	MCW	STCW	S	SW	ME
Nov. 3	-20.3	-5.6	-5.8	+.1	-14.8	+18.2	-20.8

245

Date Thurs Jan. 5-6/53 Observer L- H. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20843	H.D. 227018	19 56.1	35 02	I-12½	E-103A₀	Set .008	+2.3	18 05	19 25	4	3.05W
20844	NGC. 752, 193	01 51.5	36 55	"	"	.016	+2.4	19 40	23 10	1	0.03E
20845	H.D. 236954	02 05.5	58 43	"	"	.008	+2.3	23 20	00 30	4	
20846	B.D 48° 865	03 07.1	48 16	"	"	"	2.5 2.8	00 37	01 37	1	
20847	K Cet.	1950 03 16.7	1950 +03 11	"	"	"		02 14	02 15	2	
								02 17	02 19		
								02 30	02 33		
							2.3	02 35	02 37		
20848	560-11	1950 05 40.2	1950 +01 50	"	"	"		02 48	02 49	3	
								02 51	02 53		
							2.5	02 55	02 57		
							2.3	03 00	03 06		
20849	A.G. 4836	1950 09 02.6	1950 +27 57	"	"	"	1.8 1.3	03 38	03 40	1	
20850	H.D. 71568	10 36.3	-01 13	"	"	"	2.0	05 55	06 06	"	
	Standard	Field			O.T.B.						

Dome Temp. 1
Focus 12
Dome Temp.

Dome Temp. +36°F
Focus 12.937
Dome Temp. +27

Transparency Conditions good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	208W	35 11	0	8.8	O_6	2-2-2	Set 2 Mathews prog.	Good
	003E	37 11	0	10.5	F_5	1-1-1	Set 2 Cluster prog.	fair
	2037 N	58 53	0	8.9	cB_{25}	2-2-2	Set 8 Mathews prog.	weak.
	0130W	45 31	0!	9.0	A_7	2-2-2	" 8 & Perm. Cluster	fair
				5.74	G_5 V	6	" 1 Cr. Prog.	
			0!!			6	4	
						6	7	fair
	0155W	+0310.5				6	10	
			0!	6.0	K_2 II	6	" 1 Cr. Prog.	
						6	4	
						6	7	?
	0001W					6	10	
	0048E	0-7 41	0!	(9.35)	G_0	2-2-2	" 2 A.G. 25 North Following	fair
	0149E	-0132	0	7.40	K_1	2-4	" 5 Std. Vol.	fair
						8/6	" 9 Nov 6 MC SC MW SW S SW ME $-20^s.7$ $-11^s.2$ $+1^s.5$ $+.2^m$ $-18^s.2$ $+28^s$ $+16^s.2$ 1 Pl. Ind. Use 2-0 Photo Standard	Hor M.

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Date Mar-Jan Nov 9-10 1913 Observer DHE Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20851	HD 172287	20 09.0	+24 57.	I-12"	103a O	.06 .06	5°.4	18 16	17 50	1
	"	"	"							

Done Temp. 5
Focus 12 9
Done Temp.

Dome Temp. 40°

Focus 12.937

Dome Temp.

Transparency Conditions very good, but partly cloudy

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	–	+25 07	1	8.9	M3	3-2-0	Let 2 AG Cloud at 18:50; cloud fast 21:05 #3, #4 Hi Sped #2 1130 Am M	good

	NE	SE	NNE	SSW	S	SW	ME
Nov. 10	−19.7^s	−16.0^s	+26.0^s	+.5^m	−20.0^s	−23^s	−22.3^s
13	−19.0^s	−18.9^s	−24.2^s	−.5^m	−19.9^s	−13^s	−18.5^s

Date Sunday Nov. 15-16/53 Observer L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
20852	γ Cep.	1950 35.2 23 37.1	77 64 21	I-12½	F-103-O	Set .008	+12.2	18 17	18 22	1
~~20853~~	HD. 1026	09 09.5	62 17	"	Hi speed	"	+12.1	18 39	—	3

Done Temp.
Focus
Done Temp.

Hour Angle End

Dome Temp. +50°F

Focus 12.937

Dome Temp.

Transparency Conditions Haze

Haze and light cloud at sunset, delayed start.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2h 02m	77 21	1	4.42	K, IIIa	—	Settings 2, 4, 6, 8, exposures 14s, 28s, 40s, 60s.	
		62 34	1	7.47	A0	4-	Set 2 Moving cluster prog. ~~brighter comp.~~ sky clouding over at 1903, remaining 4 sticks	
							2 P.H.s loaded with E-103a-O	
							1 PH loaded with hi-speed.	
							H on H1	

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Date Nov-Dec 1923 Nov 16-17 Observer MK - HV Julian Day 2423698

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B.	Hour Angle End
2083	HD 2254	00 21.2	+27 05	I-12½	H & D	.101	8.0	23:03	23:19	4	4:19
2084	HD 3519	00 33.1	+59 16	"	"	"	8.2	23:27	23:47	"	4:16
2085 X5	B.D. +46°903	03 16.6	+48 16	"	"	"	9.0	00 36	00 55	3	4:16
2086 16	" 47°521	03 19.1	+48 03	"	"	"	9.3	00 58	01 21	"	4:16
2087 17	K Cet.	03 46.7 (15m 14.1)	+21 09 (+1°55)	"	Eastman 40	"	9.4	01 39	01 55	"	4:16
2088 18	66 Oph.	1900 17 12	-4 20	"	"	"	9.5	04 06	04 25	"	4:16
2089 19	H.R. 1327	11-3 34 11.6	+64 54	"	"	"	9.7	03 41	03 56	"	4:16
2090 60	A.G. 4711	04 58.1	+66 6	"	"	"	9.5	03 37	03 53	1	4:16
2091 61	" 4735	04 59.5	+67 56	"	"	"	9.5	04 11	04 21	"	4:16
	Focus	Test	0.7.13								

Dome Temp.
Focus
Dome Temp.

Dome Temp. 49°

Focus 12.934

Dome Temp. 41.5°F

Transparency Conditions FOG → CLOUDS → CLEAR at 22:30 except — S & SW

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	+2:19	+56 23	1	6.6	A0	4-4-4	at 2 hrs. of program	f
	+2:35	+59 35	1-2	6.7	A0	4-4-4	" 8 " " "	f
	00 55 11	48 26	1-2	6.8	B9	4-4-4	" 2 α Pers. Cluster.	f
	01 21 11	48 12	1-2	7.4	A0	4-4-4	" 8 " " "	f
	01 41 W	+03 11	1-2	5.24	G5 V	—	Set 2, 4, 6, 8. 40^s, 80^s, 2^m, 3^m.	f
	02 22 E	+01 52	1-2	6.0	M2 I_{ab}	—	" 2, 4, 6, 8; 1^m, 2^m, 3^m, 4^m 30^s.	f
	—	65 01	1	5.96	G5 III	—	" 2, 4, 6, 8; 1^m, 2^m, 3^m, 4^m 30^s	f
	02 19 E	+55 51	1-2	9.45	G0	2-2-2	" 2. A.G. 25.	f
	02 42 W	+57 11	2	9.35	G0	2-2-2m	" 7 " " " South Pole.	f
						5/6	" 7	

2 P.H. Loaded Hi Speed + 12.

	ME	SC	HOUR	STW	SS	SW	ME
Nov. 17	-19.0^s	-35.8^s	-12.3^s	-.3^m	-30.6^s ~~-32.2~~	-1^s	-22.2^s

Date Tues Nov 17-18/5 Observer Hd - L Julian Day 2434629

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
2086 x 2	HD189108	19 53.3	28 26	I·12	Hauffed	008	13.9	18 0[illegible]	18 36.	3	
2086 x 3	HD199763	20 54.1	30 00	"	"	"	13.9	18 39	19 03	3	
2086 x 4	[illegible] 752-196	1 51.1	37 24	"	E103a O	016	13.9	19 31	22 31	1	
2086 x 5	α Per Cl. # 104 BD 47°780	3 04.3	47 45	"	"	008	13.9	22 37	23 07	2	
2086 x 6	" #151	3 05.3	47 32	"	"	"	13.9	23 10	23 40	2	
2086 x 7	HD 30353	4 41.8	43 06	"	Hi-Speed	"	13.9	23 49	00 15	4	
2086 x 8	HD. 29587	04 34.5	41 57	"	"	"	13.9	00 18	00 58	4	
2086 x 9	56 Ori	05 47.2	01 50		E 103a O	"	13.9	00 49	01 05	3	
2086 x 70	HD. 53472	07 00.1	25 01	"	"	"	13.9	01 17	01 47	1	
2087 x 1	" 56264	07 11.1	26 33	"	"	"	13.9	01 50	02 34	1	
2087 x 2	" 56417	07 11.8	27 19	"	"	"	13.9	02 37	03 17	2	
2087 x 3	" 56761	07 13.3	27 00	"	"	"	13.9	03 20	04 04	2	
2087 x 4	" 57476	07 16.3	30 01	"	"	"	13.9	04 07	04 51	3	
2087 x 5	" 63495	07 44.1	28 59	"	"	"	13.8	04 57	05 33	3	
2087 x 6	" 75216	08 43.6	29 49	"	"	"	13.8	05 58	06 22	4	
	From Int							O T 13			

Dome Temp. +56

Focus 12.932

Dome Temp. +46°F

Transparency Conditions Hazy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	W 2 09	28 35	0-1	7.70	K_0	4-4-4	Set 2 Set w/ wood flexure ~~KA~~ and AG !	good
	W 1 35	30 15	1	7.64	K_0	4-4-4	" 8 ~~KA~~ AG	good
	W 0 05	37 42	1-2	10.67	F_5	1-1-1	" 2 O'b Chester proj	good
	E 0 33	47 54	3	8.6	F_0	2-2-2	" 2 α Per Chester	good
	E 0 01	47 39	3	8.8	F_1	2-2-2	" 8 α Per "	good
	1 01 E	45 12	3	8.3	G_{0p}	4-4-4	" 2 Bidelman's *	fine
	0 31 E	42 01	2-3	7.85	G_2	4-4-4	" 8 Standard Velocity	fine
		02 00	1	6.0	M_2 Tab		Settings 2, 4, 6, 8, Exposures 1m, 2m, 4m, 6m	
	1 47 E	24 37	1	8.29	K_2	2 2 2	Set 2 A.G. 25	fair
	1 10 E	26 28	1	8.51	K_0	2-2-2	Set 8 "	good
	0 28 E	27 12	1-2	8.54	K_0	2-2-2	Set 2 "	fine
	0 18 W	26 54	2	8.86	K_0	2-2-2	Set 8 "	fine
	1 01 W	29 56	2	8.89	K_2	2-2-2	Set 2 "	fine
	1 35 W	28 50	2	8.98	G_5	2-2-2	Set 8 "	fine
	1 05 W	29 36	2	8.08	K_0	2-2-2	Set 2 " 2 P.H.α loaded 103a O +8 H on M	fair
						8/6		

Date Wed/Thurs Nov 18/09 **Observer** Ho- Hx **Julian Day** 2434700

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B	Hour Angle End
20877	HD 1026	00h 09m.5	+62° 17'	I-12	High Speed	Set. 0.006	13.1	17 40	18 35	1	22 07
20878	HD 1658	00 15.8	+66 27	"	"	"	13.2	18 40	19 00		21 47
20879	HD 4447a	00 46.4	+68 20	"	"	"	13.1	19 13	20 01	2	21 05
20880	HD 4947 b	"	"	"	"	"	13.1	20 05	20 50		20 56
20881	BD 48°872	03 05.4	+48 42	"	F103a0	"	13.1	21 03	21 30	3	21 17
20882	BD 49°877	03 07.2	+50 03	"	"	"	13.1	21 45	22 40		21 32
20883	HD 22484	03 31.8	+00 05	"	"	"	13.0	22 52	23 54	4	21 5
20884	HP 56629	07 12.7	+29 21	"	"	"	13.0	23 05	01 15		21 3
	Tau. 1 t.		0.10.								

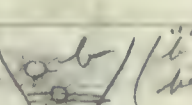
Dome Temp. 1
Tocus ... 1932
Dome Temp.

Dome Temp. 57° F.

Focus 12.932

Dome Temp.

Transparency Conditions Hazy

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	02 05E	+62 34	0-1	8.0	A0	4-4-4	Set 2 Mag. Cluster - Ran no. 1 & 2 first - Brightness of disk	fair
	01 47E	+66 45	1	7.1	A0	4-4-4	Set 8 "	fair
	01 05E	+68 36	1-2	7.9	A5?	4-4-4	Set 2 " Some wind made these  ("i" seems brighter)	fair
	0 26E	"	1	7.9	A0?	4-4-4	Set 8 " images jumped a little more than desirable	fair
	2 07E	+48 48	1	7.9	A1	2-2-2	Set 2 - 2 Pairs Cluster - Note S reading - Field OK.	strong
	0 58E	+50 10	1	9.0	F5	2-2-2	Set 8 " " "	fair
	1 07E	+00 15	1	5.2	F9	6	Set 2 Standard Velocity.	strong
	27E		1	8.4	K0	2-4	Set 8 AC - Clouds. Exposure cut 23 14 2352	fair
						2/6	" 5 Trouble with guiding	complete
							0430 Clouds	
							+ P.H. Ended 05:00	

Date Nov 19/20 1953 Thur-Fri **Observer** Bok - H & **Julian Day** 2434701

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20885	HD 106195	21 35.1	+08 44	12½	E-103a-D	2m 0.05	+12.2	17 28	17 48	1	
								17 48	1529		
20886	HD 142165	22 55.0	+56 39	"	"	"	+13.6	19 58	20 30	2	
20887	237019	00 45.7	+60 03	"	"	"	12.5	20 50	21 26		
20888	BD. 47° 792	03 08.8	+47 42	"	"	"	13.4	21 25	21 49	3	
20889	BD. 50° 728	03 09.4	+50 53	"	"	"	13.5	21 55	22 55		
20890	HD 60135	07 15.4	+19 44	"	"	"	13.3	23 14	23 50	4	
20891	60249	08 11.5	+37 42	"	"	"	13.1	00 00	0220		

Dome Temp. 57°F

Focus 12.932

Dome Temp. 48°F

Transparency Conditions Hazy, veiling the sun

At 04h E Telescope d. 18° North. [δ 27°.5]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 13E	58 56	3	10-75	A0	2-2-2	Rel 2 EE Beg	Nebulosity
0 27E					2-2-2	8 -"-	"
0 41E	56 56	3	100	B0n	2-2-2	2 Faith progn	Poor
1 47E	60 15	3	8.9	C7	2-2-2	8 -"-	Weak
1 46E	49 50	3	9.1	A0	2-2-2	2 x Bo cluster, In 155	Poor
0 40E	51 15	3	9.1	F2	2-2-2	2 -"- Sc 150 Bright star images in large d. of in dec. Hazy night	Poor
4 04E	20 25	2	9.2	K2	2-2-2	2 2-15	Good
2 16E	27 32	0	9.4	K2	2-2-2	3 . Foggy, Hazy,	Good
					3/6	" 5 . Imag ? Extinction	Mediocre

P.H. # 142 H. Speed.

" 3 47 E103-3-0 +2

Hourly

	HC	SC	HCW	SCW	S	SW	ME
Nov. 20	-19.2 s	-10.7 s	-26.2 s	-.4 m	-5.6 s	+8 s	-24.3 s

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Date Fri-Sat Nov 20-21 1953 Observer O— Julian Day 2434702.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20892	HD202303	21 09.8	+17 15	J-12	E1 c3a-0	Ext .008	+11.9	18 03	18 59	3	
20893	HD208312	21 50.4	+32 13	"	"	"	+11.9	19 03	19 45	3	
20894	BD 48° 89°	3 16.1	+48 52	"	hi speed	"		19 57 30	20 01 30	1	
20895	B.D. 47° 828	3 20.0	+47 52	"	"	"	+11.9	20 09	20 39	1	
20896	BD 47° 826	3 19.8	+47 35	"	"	"	+11 8	20 44	21 44	2	

Dome Temp. 50° F

Transparency Conditions Very Hazy

Focus 12.933

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
6 51 3	1 26 W	+17 27	0+	7.98	A2	2-2-2	Sel 2. KA	fair
7 45 3	1 32 W	+32 29	0+	7.62	A0	2-2-2	" 8 KA	fair
10 21 1	3 37 E	+49 02	1	45	B3	3-3	" 2 & Per 557	good
10 30 1	3 04 E	+48 02	1	6.8	B9	2-2-2	" 8 " 4 735	strong
11 -- 1	2 00 E	+47 44	2	7.6	A:	2-2-2	" 2 " 1 729 Thickening Sky, not	fair
						K/2	OTB with moon lit all night	
							PH 1, 2. hi speed.	
							PH 4 103a-O. + 2.	
							Hour Notes.	

Date Mon.-Tues. Nov. 22/24 Observer (HR) – Hv Julian Day 2434705

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
20897	H.D. 36589	05 27.7	20 24	I-12	H&D	.008	7.8	01 01	01 17	1
20898	" 37940	05 37.0	(20 57)	"	"	"	7.7	01 17	01 35	"
20899	A.G. 4044	07 28	22 57	"	F[illegible]	"	7.7	01 43	02 58	4
20900	H.D. 70178	08 15.5	29 07	"	"	"	7.4	03 04	03 40	"
20901	" 83204	09 31.8	24 51	"	"	"	7.5	04 47	[illegible]	3
	Exposure	Lost		0 9 8						

Done Temp.
Focus
Done Temp.
Hour Angle End

Dome Temp. +42°

Focus 12.935

Dome Temp. 41.3

Transparency Conditions Clear, a little hazy Windy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0036E	22 25	0	6.1	B2	4-4-4	Set 2 Moving Cluster	poor
0126E	19 36	0	6.7	B4	4-4-4	" 8	poor
0040E	28 42	0	6.6	B0	2-2-2	" 2 A.G. 25	poor
0005E	28 56	0	6.61	B5	2-2-2	" 8 " " 03½ Cloud.	poor
0021E	29 36	0	6.71	B0	2-4	" 2 " " 01½ Cloud.	weak
					6/6	" 0 " " 01½ Cloud. all right	

Phl. #2 H. Speed.

" #4 E 103-a-0

Plates Needed

Tel. ~~WWV~~

	MC	SC	MTL	STW	S	SW	ME
Raw 24	+17.0 s	-31.3 s	-18.3 s	-.2 m	-24.1 s	+.11 s	-20.3 s

Date Wed-Thurs Nov 25/26 **Observer** Ho – Hs **Julian Day** 2423707

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20902	BD +48°885	03 12.5	+48 35	I-12	E10	let .008	5.6	17 33	21 50	4	4/ 46E
20903	HD 22484	03 31.8	+00 05	"	"	"	5.6	29 00	23 01		2/ 39E
20904	HD 61645	07 35.2	+26 08	"	"	"	5.6	22 11	23 43	1	3 53E
20905	HD 62467	07 39.1	+26 14	"	"	"	5.6	23 48	0 1 30		
20906	" 62857	07 40.9	26 16	"	"	"	5.6	0 10	03 02	3	
20907	A.G. 4536	09 02.5	27 57				5.7	03 19	05 [illegible]		
20908	HD [illegible]	09 40.3	27 36	"	"	"	5.1	05 35	[illegible]	1	

Dome Temp. 37°F

Focus 12.934

Dome Temp. [illegible]

Transparency Conditions Some light cloud

Clouds cleared off totally after 19^m

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	01 46E	48° 44'	00	9.1	F4	2-2-2	Set 2 2 Pairs 421 - Interrupted by RCAF 2023 1950^EST (Hand-worked has chipped corner)	weak
[illegible]	01 33E	00 14	0	5.2	F9	6	Set 8 Std. Vel. Stars.	fair
[illegible]	3 53E	26 01	0	9.0	K2	2-2-2	Set 2 AG. ↑ ↓ (Drifting ↑ in δ)	weak
[illegible]	02 11E	26 05	0	8.7	K0	2-2-2	Set 8 AG - AG	good
[illegible]	03 6E	26 07	0	8.98	G5	2-2-2	Set 2 AG (also Cluster)	fair
[illegible]	26W	27 [illegible]	0	9.35	G0	2-2-2	" 5 "	fair
[illegible]	04 3W	27 17	0	9.12	K0	2-2-2	" 3 "	weak
						8/6	" 8	

PH. #1 ⇒ E 10s - D

" #2 ⇒ H. Sp - I

N. m - M.

	MC	SC	MW	STW	S	SW	ME
Nov. 27	-20.7	-35.4	-3.5	-.2^m	-25.1	-7.5	-20.5
Mic 1	-19.3	-39.4	-19.9	-.1^m	-25.9	+17.5	-16.3

(BK)

Date Jue-Wed. Dec 1/2, 1953 **Observer** Hd - L **Julian Day** 2434713.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
20910	B.D. +21°3021	20 00 1	+21 52	12½	E103-a-O	scL .008	+2.8	17 25	18 03	1	W 2.4
20910	NGC 752 #209	1 51.2	37 00	"	"	016	+2.8	18 16	20 16	3	E 1.20
20911	BD 47° 808	3 14.3	48 09	"	"	008	+3.0	20 23	21 33	4	E 1.21
20912	BD 48° 894	3 14.8	48.52	"	"	"	+3.0	21 38	22 48	4	E 6m
20913	HD 30253	4 41.8	43 06	"	Kodak	"	+2.8	23 01	00 00	2	0 30 E
	Focus Test						0 TB				

Dome Temp.
Focus
Dome Temp.

Dome Temp. 36°F

Focus 12.934

Dome Temp. +32°F

Transparency Conditions

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							Set WS To avoid Moon.	
	W 2 24	32 01	0	8 3	B05	2-2-2	cl 2 Mathewall's group.	fine.
	E 1 20	37 15	0	9.75	A3	1-1-1	" 2 O's Cluster	fine.
	E 1 21	48 18	1	9.1	A8	2-2-2	" 2 α Per Cl. # 481	fine
	E 6m	49 01	1	9.1	A9	2-2-2	" 8 " " " # 501	fine.
	0 20 E	43 11		8.3	(G4)	4-4-4	" 2 Biddman's * thunderst 23+0	Lwk.
						14/10	Sky thick at 00.00	
							2 P.H. - loaded 103A0 +12	

Date Thu-Fri Dec 3-4 1953 **Observer** O - **Julian Day** 2434715

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20914	BD 47° 831	3 20.9	+47 25	I 12	hi spec	Set 208	+7.7	18 22	18 50	2	4 01 E
20915	BD 47° 835	3 22.1	+47 59	"	"	"	+7.7	18 55	19 15	2	3 31 E
20916	BD 47° 809	3 14.9	+47 36	"	E103a-O	"	+7.6	19 20	20 00	4	4 41 E
20917	BD 51° 723	3 15.3	+51 18	"	"	"	+7.7	20 03	21 13	4	3 31 E
20918	BD 49° 897	3 16.0	+49 03	"	"	"	+7.7	21 16	22 04	1	2 46 E
20919	BD 49° 907	3 18.0	+49 55	"	"	"		22 08	22 15	1	2 31 E

Dome Temp. 42° F

Transparency Conditions Stable haze

Focus 12.934

Dome Temp. 40° F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	4 03 E	+47 34	0	7.1	A0	4-4-4	Set 2. α Per # 775	good
	3 39 E	+48 08	1	7.2	B9	4-4-4	" 8 α Per # 831	Fair
	2 47 E	+47 45	1	8.3	A0	2-2-2	" 2 α Per # 507	Poor
	1 34 E	+51 30	1	9.0	A3	2-2-2	" 8 α Per # 522	Poor
	0 43 E	+49 12	1+	8.6	A0	2-2-2	" 2 α Per # 554	Poor
	0 35 E	+49 03	—	8.2	A:	2.- —	" 8 α Per # 639 Clouds coming in from west about 2:15	Thin
		Focus Test.				8/6	" 11 3 + B:	Thin

PH #3 hi speed

PH 1, 2, 4, E 103a-O + 9

	MC	SC	MCW	SCW	S	SW	ME
Dec H	-18.9 s	-42.9 s	+9.0 s	+.5 m	+3.9 s	-26.9 s	-18.5 s

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Date Fri: Dec 4-5/53 Observer Hoag Hd Julian Day 2434716.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.P	Hour Angle End
20920	BD 48°933	3 22.7	48 53	I-12	Hyped	008	+8.2	21 54	22 34	3	W 11½

Dome Temp. 46 F

Focus

Dome Temp.

Transparency Conditions

Reading Time E.S.T.	P.P.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 37		00 17 E	49 04	0	7.4	A0	4-4	Set 2 2 Pairs # 868 Very windy Power interruptions so closed up. El. clocks were stopped for about 2 min.	fine
								1, 2, 4 – 103 a0	
								Clouds after midnight. Still Windy.	

271

Date Sun - Mon Dec 6/7, 1953 Observer Fox - Julian Day 2434218

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
20901	BD +48° 905	3 17.2	+48 53	I 16½	E103a-O	.008	+7.0	18 26	20 06	4	1.30
11-12	48° 909	3 18.2	+48 58	"	"	"		20 10	20 28		1.43

Dome Temp.
Focus
Dome Temp.

Dome Temp. 46°=

Focus 12.934

Dome Temp.

Transparency Conditions good

Delayed starting because of clouds

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 30 E	49 00	0!	9.0	AC	2-2-2	sel 2, + Per CC Nr. 656	f
	2 10 E		0	8.4	A4	2-4	8 651 clouds	good
							Cloudy after midnight. 2P4 E 10 min

273

Date Nov-Dec. Dec 7/8, 1953 **Observer** (Bk) MR - HS **Julian Day** 2434719

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E
20923	H.D. 21762	03 54.4	-45 49	10"	Hi-Speed	Set .008	+6.0	17 25	18 01	3
20924	21634	03 57.0	+46 17	"	"	"	6.2	18 07	18 45	
20925	ED 47°516 S.	03 34.6	+47 32	"	"	"	6.2	18 54	19 35	4
20926	48°943	03 24.8	+48 25	"	"	"	6.0	19 12	19 54	
20927	49°E2	03 24.0	+49 23	"	E103-a-O	"	5.8	19 29	20 29	1
20928	49°954	03 24.2	+49 34	"	"	"	6.0	20 35	22 21	
20929	HD 36589	05 27.7	+20 24	"	Hi-Speed	"	6.0	22 30	22 50	4
20930	HD 37940	05 37.0	+18 57	"	"	"	"	22 47	23 07	
20931	HD 63816	07 45.7	+25 05	"	E103a-O	"	6.0	23 15	00 35	2
20932	A.G. 4714	07 46.1	26 06	"	"	"	"	0035	0115	"
20933	H.D. 75646	"	2605	"	"	"	6.1	0237	0331	4
20934	76	07 54.4	2903	"	"	"	6.0	0335	0431	"
20935	78367	07 55.5	2517	"	"	"	"	0438	0534	1
20936	" 26590	07 54.4	2502	"	"	"	"	0540	0620	4
20937	" 103095	" 47.2	3226	"	"	"	"	0627	0637	1

Focus 2.2 Set 0.2 E.

Dome Temp. 42°F

Transparency Conditions Good, v. dry

Focus 15.034

Dome Temp. 38

Hour Angle - End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 0 E	46 04	0	8.0	A0	4-4-4	set 2 KA	f
0 3 W	46 25	0	8.0	F0	4-4-4	8 "	f
0 3 E	49 43	0	6.6	B9	4-4-4	2 Par Cluster = 915	v.f
0 1 E	48 34	0	6.5	B9	4-4-4	8 " 915 "	v.f
0 10 E	49 32	0	8.5	A5	2-2-2	2 " 921	f
0 18 E	49 43	0	8.6	A4	2-2-2	8 " 931 Hyades + 3/4° cloud	f
2 02 E	20 26	0	6.1	B8	4-4-4	2 Mov. Clouds	g
1 44 E	18 57	0	6.7	B9	4-4-4	8 " "	f
2 36 E	24 58	0	8.84	G5	2-2-2	2 AG. 25	f
2 24 E	25 54	0	(7.45)	K0	2-2-2	" 8 " " Not	f
2 29 E	35 23	0	(8.51)	K0	2-2-2	" 2 " " Sc	f
2 23 W	28 30	0-1	2.81	K5	2-2-2	" 8 " " Sky	g
2 15 W	25 35	0-1	2.89	K0	2-2-2	" 2 " "	f
2 12 W	24 27	0-1	8.4	G5	2-2-2	" 5 " " PH. + 2 Hyades + 6	f
2 21 E	38 01	0-1	7.27	G5	2-2-2	" 8 Sol. Vel. " = 3 Hyades	f
					8/16	10.5	

Date Tues-Wed, Dec 8-9 1953 Observer O - L Julian Day 2434720.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
20938]	NGC752 #108	1 50.8	+37 32	I-12	E103a-O	.008	+7.3	17 48	20 04	2	
20939]	BD (radial vel.) +48° 907	3 18.0	+48 55	"	"	"	-7.6	20 15	20 59	2	
20940]	BD +49° 921	3 17.9	+49 27	"	"	"	+7.5	21 02	22 02	4	
20941]	BD +47° 822	3 19.1	+47 53	"	"	"	+7.4	22 04	22 18	4	
20942	HD 64833	7 50.7	+26 22	"	"	"	-7.7	22 58	00 20	1	
	Focus Test						O.T.B.				

Dome Temp. 43° F

Focus 12.934

Dome Temp.

Transparency Conditions Clouds in W and NW

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 58 E	+37 46	1-2	9.60	F5	2-2-2	Set 2 Clusters (Fed Lick Catalog 2755)	fair
	1 30 E	+49 03	3	8.2	A	2-2-2	" 8 α Per # 639 (Harv)	fair
	0 28 E	+49 37	3	9.0	A8	2-2-2	" 2 α Per # 635	fair
	0 18 W	+48 02	3	8.4	A3	2-2-2	" 8 α Per # 694	fair
	2 41 E	+26 12	2	8.2	K0	2-2-2	" 2 AG-25 more clouds	hazy all night
						3/6		

Dec rotors, rotors stuck & work, don't finally. Don't know why. Fuse all night

Closed at 02.00 sky hopeless.

1 PH loaded with hi speed

2 PH loaded with E 1030-O

+2 1030

Need box of stripped rotors

	MC	SC	MTW	STW	S	SW	ME
Dec. 8	−8.9	+9.5	−11.2	−.1	+9.6	−6	+4.8

Date Thurs-Fri Dec 10/11 1952 Observer Bok - Hv Julian Day 2434722

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
20943	HD 70409	08 16 7	+27 51	I 12½	E103-a-O	set	+3·0	23 08	23 58	2	
20944	" 71008	08 20·0	+25 58	"	"	"	+2.0	00 03	00 47	"	
20945	" 72907	08 30.3	27 03	"	"	"	2.0	01 20	01 44.	4	
	Thurs Fri		0 73								

Dome Temp. 32°F

Transparency Conditions Good

Focus 12.934

Dome Temp. 30°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 12E	27 41	1	3.65	G5	1-2-2	set 2 4325	
	2235E	2845	0 1	9.44	K0	1-2-2	8 "	0250 Cloud.
	0148E 0149E?	2550	0	3.63	K0	2-4 8/6	"2 " "9.	0120 Clear. 0144 Clouds. 0146 Power Off. 0225 Power On. Mostly Cloudy

P.H. #3 → Hi Speed.

P.H. #192 → E103-a-0 ± 10

New Plates

Hon. M.

Dome data

	HE	SC	HW	STW	SW	MC
Med	-12.0 s	-30.5 s	+15.2 s	0 m	-30.5 s	+9 s	0.0 s

279

Date Sat-Sun, Dec 12/13, 1953 **Observer** — PSK **Julian Day** 2434724

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End	D
20946	HD 74348	08 38.4	+25 50	I 12½	E 103-a-O	sol .008	+30	00 35	01 21	1		
20947	74624	08 39.9	+28 43	"	"	"	+30	01 26	02 [illegible]			
20948	74811	08 41.1	+28 32	"	"	"	+32	02 27	02 [illegible]	2		
20949	76864	08 53.6	+29 24	"	"	"	+33	02 44	02 54			

Dome Temp. 30°F

Focus 12·934

Dome Temp. 30°F

Transparency Conditions good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2 11 E	29 38		8·21	G 0	2-2-2	set 4 +3 25 Spectra at mt: Cassiopeia.	fair
	1 14 E	29 32	D	8·64	30	2-2-2	. 9 "	fair
	0 57 E	29 17		8·95	30	2-2-2	" 2 " cirrus	fair
	0 52 E	29 10	D	8·96	42	2-4	. 8 " overcast at 03 54	very weak.

24 Hr Hi-Speed

1+4 Exp.—0

	MC S	DC .2 S	MTW	STW	S 0.59	S W 2	ME
Dec. 15	-17.0	-18 S +2.4	-18 S	+.3 N	+8.8	-8.8	-4.2

281

Date Wed-Thurs Dec 16-17/53 Observer O- Julian Day 2434728

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End	D
20950	NGC 752 #1	1 49.2	+37 20	I 12	E103a-O	Sl 016	+	17 58	18 10	4	2 19E	+3

ome Temp. +18° F

ocus 12.934

ome Temp.

Transparency Conditions

Reading Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8	2 19 E	+37 35	0-	10.4	K0	1-	Sol 2 Cluster Clouded over 18 11	Too weak

283

Date Thur-Fri, Dec 17/18, 1953 Observer MK Julian Day 2434729

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
20451	NGC 752 F1	1 49·2	+37° 20	F10½	E103-a-O	cal C16	-8·2	17 40	20 30	

Dome Temp. +12°F

Focus 12.9.34

Dome Temp.

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 06W	37 34	0	1:4	X0	1-1-1	2 L 2 20" Lacaille 7 standard 1 P4 N Tr X spread 2 " 1x7-n-0	fine.

	HC	SC	NPole	SPole	S	SW	ME
Dec 17	-15.2	+3.1	-11.2	+.1	+2.1	-6	-4.2
21	-13.3	+3.5	+8.0	+.5	+2.2	+0	+0
23	-13.4	+6.2	~~+14.8~~	~~+3.8~~	~~+4.0~~ -.4	+3.8	+1.2
			-45.2	-.4	+7.0		

285

Date Wed. Thurs. Dec 23/4/03 Observer Ho- H.C Julian Day 2434735

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
	HD 30353					Lab				
20952	Bodesmon *	04 41				CO2	-4.8	22 23	23 10	1
20953	HD 30452	05 19.4		"	"	"		23 44	23 44 49	

Dome Temp. 46
Focus 16.993
Dome Temp.

Hour Angle End
0 19E
00 17E

Dome Temp. +16°F

Focus 12.933

Dome Temp.

Transparency Conditions Poor-some cloud

Cloudy in the early evening

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00 15W	+43°13' west	0"	8.3	Gop	2-2-2	Dec motor won't work - some cloud - Seeing!!	good
	0 19E							
	00 15E	-00°38'	0000	5.3	KO	6	Focus awful work poorly - Thr clouds.	fair
							#4 PH? Hi Sp	
							#2 PH 1930	
							Cloudy after midnight R.A. clamp does not work properly	

287

Date Thurs-Fri Dec 24-25 1953 **Observer** MO **Julian Day** 2434736.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	Hour Angle End
	BD +47°830					set					
20954	α Persei #756	03 20.5	+47 57	1-12½	I-103-0-C	0.002	-5.6	17 41	18 11	2	3.9E
	BD +47°838										
20955	α Persei #658	03 18.4	+47 38	"	"	"	-5.4	18 20	19 30	"	1.5E
	BD +46°748										
20956	α Persei 665	03 18.6	+46 42	"	"	"	-5.0	19 54	21 16	]	0
	BD +48°944						-4.6				
20957	α Persei 976	03 24.9	+48 16	"	"	"	-4.3	21 20	21 56	"	0
	Focus Test	0-T-E.				"					
							-3.9				
20958	HR 6754	08 03.4	+29 22	"	"	"	-3.5	22 48	23 04	2	3.0E
							-3.5				
20959	HD 67628	08 03.8	+29 29	"	"	"	-3.1	23 21	00 21	"	1.3E
							-3.0				
20960	HD 69866	08 12.9	+27 11	"	"	"		00 25	01 11	1	1.0E

Dome Temp. +23° F.
Focus 12.933
Dome Temp. +28

Transparency Conditions ..good..

Terrific wind storm all night.
Much worse around 1:00 A.M. T

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 19 E	+ 48 05	0	7.9	A0	2-2-2	Set 2. Cluster Prog. Dome electric clocks need resetting. Stromgren og Olsen S.T. 2h slow.	stary
	1 57 E	+ 47 47	0	9.2	A5	2-2-2	" 8 " " " Set 7 a.c.	fair
	0 12 E	+ 46 51	0	8.9	A3	2-2-2	" 2 " "	stary
	0 23 W	+ 48 24	0	8.1	—	2-2-2	" 8 " " Thin clouds becoming	stary
						8-6	" 10½	cloudy
	3 07 E	+ 29 12½	0	7.62	G0	2-2-2	" 2 check fields clear again. focused on β Cnc	stary
	1 51 E	+ 29 13½	0	8.63	K5	2-2-2	" 8	fair
	1 10 E	+ 28 51	0	8.65	K0	2-2-2	" 2 I had to shorten the exposure because the wind was so violent. P.H. #1 & #2 Fixed. P.H. #3 & #4 H. Spred Box of plates needed.	fair

The wind was so bad, I had to leave dome in a south easterly position where it had been chained for the last exposure. The wind had tightened the chain and I was afraid the wind would turn the dome if I unchained it. However the telescope is resting on the pier.

289

Date Sat.-Sun. Dec. 26-27 1953 **Observer** Mo - Hr **Julian Day** 2434738

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J	Hour Angle End
20961	HD 67161	08 03.7	+25 51	I-12½	F103a-D	0.008	-0.8	21 37	22 57		3 07E
20962	HD 75663	08 46.2	+29 19	"	"	"	-0.8	23 10	00 46		0h00E
	Tom	Tol		J.F.B.							

Dome Temp. +24°F

Focus

Dome Temp.

Transparency Conditions good once sky cleared.

At beginning of night sky was cloudy with occasional clear intervals. A very strong north wind was blowing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	3 07E	+25 41	00	8.54	K_2	2-2-2	Sol 2 A.G.	
	0200E	+29 00	1	8 75	K_2	2-2-2	" 8 " Thin clouds ± 40	
						8/6	" 5.	

P. H. # 8 ≥ 103-a 0 + 18.

P. H. = 3 + 4 H. Speed.

to N.

Dome Photo + Strongman on

Need to setting

Flat Lite

	H	SC		STC	S	S	M E
Dec 26	-9.4	+2.9	~~-30~~ -20°	~~-4~~ -.5m	+2.9	+2.9	0.0

Date Dec 28-29/53 Observer -H- Julian Day ~~2434740~~

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
20963	H.D. 75676	08 46.1	26 05	I-12	E103a-O		+0.4	0225	0335	2.	
	Plate covers finished to 20963 Mic - 1954 Jan. 2										

Dome Temp.
Hours
Dome Temp.

Dome Temp. 30°F
Focus 12.934
Dome Temp. 2½

Transparency Conditions Good.
Clearing just before close.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1115	0058 W	2553	0	8.51	Ko	2-2-2 3/6	Set 2 A.G. 7. S. Proc. of pair. 025°	good all night
							Hor. M. P.H. # 172 E 102-00 T 10 " E 379 Hi speed	
							Work — 1 mirror sector broken.	

	HO	SC	NPole	S Pole	S	SW	M S
Nov 30	-9.7	+16.2	-14.2	+6.8	+21.3	7.5	1.7

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Date Dec 30-31 1953 Observer MR Julian Day 2434742

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
20964	BD +49°938	3h 21.0	+49°37′	I-12	103a-0	.008	−4.4°	18:15	19:07	2	-2 11 -
20965	BD +48°924	3 21.4	+49 03	"	"	"	-1.8	19:13	20:33	"	-0:33+
20966	HD 30353	4 41.8	+43 06	"	"	"	-1.9	20:47	21:31	]	-0 10 +
20967	BD +41°840	3 22.8	+47 39	"	"	"	-2.0	21:41	22:00:	"	0 53W

Dome Temp.
Focus 1.93
Dome Temp.

Dome Temp. 17°F

Focus 12.934

Dome Temp.

Transparency Conditions very good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
-2:00	+49° 46′	000	8.0	AO:	2-2-2	✓ Pers #780 sd 2 / Erratic trouble with a) focus sw.	fair
-0:33	+49 11	00	8.5	A3:	2-2-2	" # 202 .8 ← hazy & ddy b) heater sw	poor
-0:16	+43 11	00	8.3	G0p	2-2-2	Bidelman's Star	/
0_53W	+47 48	00	7.9	A0	2-4	clouds 22h, solid ∝ Pers # 874	fair
						Hon M	
						PN #2 E 163m.0 +9	
						" #384 Hi Speed	

Date Sunday (Monday) Jan 3-4 / 1954 Observer Ho - Hx Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E.	Hour Angle End
20968	BD 49°928	03h 18.8m	+49° 27'	I 12	E 103aD	set .008	-3.1 C	19h 19m	21h 1m	2	
20969	HD 29587	04 34.5	+41 5.7	"	"	"	-3.1	21 [illegible]	22 00	2	
20970	HD 69312	08 11.3	+27 21	"			-3.1	22 14	23 [illegible]	1	
20971	HD 69349	08 11.5	+27 43	"	"	"	-3.1	23 [illegible]	0 [illegible]	1	
20972	HD 71008	08 20.0	+28 5.8	"	"	"	-3.1	0 [illegible]	0 [illegible]		
20973	" 75935	08 47.9	27 16	"	"	"	-3.1	0 [illegible]	0 [illegible]		
20974	" 76832	08 [illegible]	[illegible]	"	"	"	-3.2	3 [illegible]	[illegible]	1	
20975	" 90688	10 23.1	27 2.6	"	"	"	-3.2	04 [illegible]	[illegible]	1	
20976	" 91750	10 31.9	25 36	"	"	"	-3.4	0535	0655	2	

Dome Temp. +20°F Transparency Conditions Same cloud

Focus 12.934

Dome Temp. 13

Cloudy, pretty well cleared by $18^h 55^m$

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00 27W	+49° 37'	00	9.0	A5	2-2-2	α Per Cl #679 Set 2	
	00 03E	42 02	00	7.65	G2	2-2-2	Std Vel. Set 8	
	02 20E	+27 09	0	8.68	K2	2-2-2	AG Set 2 — (Used more than 1/4 from here)	
	01-35	27 32	0	8.49	K0	2-2-2	AG Set 8	
	00 36E	28 45	0	8.42	K0	2-2-2	" " 2	
	[illegible]	[illegible]	[illegible]	8.77	K0	2-2-2	" " 8	
	01 15W	28 17	0	8.72	G5	2-2-2	" " 2	
	01 39W	2709	0	8.76	K0	2-2-2	" " 8	
	02 37W	25 18	0	8.41	G5	2-2-2	" " 2	
						8/10	" " 8	

P.H. # 1 > E10 = -4-0 +4

" = 3.41 Hi ½ mod

	MC	SC	MTW	STW	S	SW	ME
Jan. 4	$-6^s.5$	$+11^s.3$	$+18^s$	$+.5^m$	$+18^s.1$	$-20^s.4$	$-5^s.2$
6	$-5^s.2$	$+10^s.6$	$\bar{+}18^s.8$	$-.2^m$	$+29^s.0$	-16^s	$-2^s.3$

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Date Thurs-Fri June 7/8 1954 Observer BK — HR Julian Day 2434 750

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
20977	BD-45° 934	03 [illegible]	+44 11	I-16'2	E103-a-O	.008	-6.0	17 42	19 [illegible]	1	[illegible]
20978	BD 45° 931	03 [illegible]	+44 41	"	"	"	-6.2	18 49	[illegible]		
20979	+43 30353	04 418	+43 06	"	"	"	-6.2	20 10	[illegible]	2	
20980	HD [illegible]	[illegible]	+41 57	"	"	"	-6.4	21 14	[illegible]		
20981	HD 71028	[illegible]	[illegible]	"	"	"	-6.0	21 41	[illegible]	1	
20982	HD 76866	08 503	+25 03	"	"	"	-6.0	23 07	[illegible]		
20983	HD 77526	08 [illegible]	+29 41	"	"	"	-6.3	0001	01 41	2	
20984	" 77444	08 57.4	27 37	"	"	"	-6.4	0147	[illegible]		
20985	AG. 4835	09 [illegible]	27 56	"	"	"	-6.8	0315	~~0515~~ 0513	1	

Dome Temp. 14°F

Transparency Conditions ...

Focus 2.934

Dome Temp. +3 !!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 55E	48 19	0	9.4	F3	2-2-2	Sel = Acc - Lo 4.5	fair
0 00E	118 50	0	9.1	F7	2-2-2	4 SC3 thermally	fair
0 49E	+3 12	0	8.3	G0p	2-2-2	2 Stellar Spectra	fair
0 49E	42 00	0	7.85	K2	2-2-2	3 and st.	fair
2 22E	23 34	2	8.76	K0	2-2-2	2 46 35	fair
1 52E	24 47	3	8.74	K0	2-2-2	3 "	fair
0 030E	29 06	00	8.72	K2	2-2-2	" 2 "	fair
0 052W	26 22	2	8.75	K2	2-2-2	" 2 " Spatter ~7	good
(03 01W)	27 40	EC	9.35	G0	2-2-2	" 2 " Sat Pec.	fair
					F/6	" 2 " Accepted for ...	Weight

2 P.E. Landed Hi Speed
Photo. N. Landed
Hi. M. Near Built Very Feeble.
Clouds + Haze ~ 600

	HC	SC	WW	SW	S	SE	E
Jan. 8	-4.6	+10.7	-7.8	1.1	+22.2	-5	-2.5

Date Sun. Mon., Jan 10-11, 1954 Observer O Julian Day 2434753

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20986	BD 49° 972	3 06.3	+49 15	I-12	hi Spec	.008	-12.6	19 47	20 43	3	0 34
20987	HD 69364	8 11.6	+28 05	"	E103a-O	"	-12.3	20 55	21 41	1	3 35
20988	HD 72907	8 30.3	+29 03	"	"	"	-12.4	21 45	22 36	1	4 35

ome Temp. 0°.5

ocus 12.1 33

ome Temp.

Transparency Conditions Scattered clouds.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	0. 34 W	+49 23	0-	7	E7	4-4-4	[illegible] Excess moisture on [illegible]	fair
[illegible]	3 31 E	+24 58	0-	3.5	K0	2-2-2	.2 AG	fair
[illegible]	55 E	+28 49	0+	8 63	K0	2-2-2	.8 " Spotter inoperative Plate to use. Clouded over at 22h 30.	good.

PH 2.3. 103a-0 No Spectra 19
Hr 4 binned.

	MC	SC	MTW	STW	S	SW	MC
Jan 11	-2.5	+11.9	+17.0	+.5	+22.4	+2	-2.2

Date Tues Jan 12/13/14 Observer Hd-L Julian Day 2421755

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
20989	α Per II #106 BD 47° 538	3 23.6	47 17	1-12	Eastman 3a-D	558	-14.0	18 57	20 11	2	E 06
20990	α Per cl #958 BD 49°958	3 24.7	49 33	"	"	"	-14.0	20 20	21 50	2	W 91
20991	HD 70030	8 14.7	25 39	"	"	"	-14.0	21 59	22 59	3	E 208
20992	HD 70178	8 15.5	29 07	"	"	"	-14.0	23 05	00 15	3	C 53E
20993	" 70402	08 16.7	27 51	"	"	"	-14.1	00 20	01 30	1	C 21W
20994	" 79214	09 07.7	24 42	"	"	"	-14.1	01 35	02 55	1	C 55W
20995	" 95363	10 55.5	27 40	"	"	"	-14.1	03 00	03 44	2	C 03E
20996	" 101289	11 34.3	25 52	"	"	"	-14.1	03 49	04 29	2	C 03W
20997	" 108675	12 24.0	29 26	"	"	"	-14.1	04 33	05 43	3	C 27W
20998	" 115256	13 10.9	29 17	"	"	"	-14.1	05 48	06 47	3	C 45W

ome Temp. +3
ocus 12.933
ome Temp. -5°F

Transparency Conditions Good

clearing at 18h5

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 11 2	E 06	47 29	0	8.7	H_0	2-2-2	just 2. no. 2 foci. ×14 18h10.	fair
2 50 2	W 131	49 42	0	9.1	F_0	2-2-2	" 8 " " " " "	fair
22 59 3	E 208	25 27	0	8.58	K_2	2-2-2	" 2 " " AG prog.	good
2 5 3	O 53E	28 55	0	8.65	G_5	2-2-2	" 8 " " AG "	fair
01 30 1	O 21W	27 38	0	8.65	G_0	2-2-2	" 2 " " " "	fair
02 25 1	O 55W	24 27	0	8.75	K_0	2-2-2	" 8 " " " "	fair
1 42 2	O 03E	27 22	0	7.93	G_0	2-2-2	" 2 " " " "	fair
04 5 2	O 03W	25 32	0	7.87	G_0	2-2-2	" 8 " " " "	fair
03 43 3	O 27W	29 06	0	8.68	G_0	2-2-2	" 2 " " " "	fair
04 47 3	O 45W	28 58	0	8.77	K_0	2-2-2	" 8 " " " "	fair

clouds near end, star gone at 06 47

2 P.H.s loaded with 103a.0 +4

1 P.H. " " H.A. Spec. 1

H on M

	HC	SE	HTW	STW	S_S	SW	HE_S
Jan. 13	+2.8 s	+14.0 s	-28.5 s	.3 m	+23.9	+9 s	-9.3

Date Wed. Jan. 13-14/54 **Observer** Ho **Julian Day** 2434756.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
20999	HD 204658	21 25.0	+28 26	I 12	E103aO	slit .008	-11.0C	17 47	19 04		
21000	HD 22484	03 31.8	+00 05	"	"	"	-11.0C	19 15	19 17	1	
21001	BD 48°949	03 27.3	+48 19	"	"	"	-11.0	19 29	19 40	2	
21002	BD 49°975	03 29.8	+49 24	"	"	"	-11.0	19 51	20 51	2	
~~21003~~	~~HD 7132~~	~~08 20C~~	+28 23	"	"	"		21	—		

Dome Temp. +1
Venus 12 93
Dome Temp.

Dome Temp. +14°F

Focus 12.93"

Dome Temp.

Transparency Conditions (Cloud in west) - Fair

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
							a few ice crystals on the secondary.	
14 04	4 50W	+28 38	0	8.77	G5	2-2-2	AC Set 2 → S drifting as ↓ (Hyperion N?)	1
9 7	1 04E	+00 13	1	5.18	F9	6	Set 8 Std. Vel	1
14	0 37E	+48 27	1	7.0	A0	3-3	Set 2 & Pers Cl + 1082	1
21 51	0 30W	+49 31	2	9.0	A2	2-2-2	Set 8 & Pers Cl + 1183 - (5 minutes of) Cloud from S at 20.3° again at 20.5°	1
				8.92	K0		Set 2 AC	

1 Ph Hi Spd.

3 Ph 1032 0 - not spotted +1

need more plates

	MC	SC	HTW	STW	S	SW	ME
Jan 15	-.7 s	+13.5 s	-32 s	-1 m	+23.7 s	+11.5 s	-7.8 s

Date Sat-Sun Jan 14/15 1934 Observer - Lc. Julian Day 2434759.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
1003	+15 [illegible]	09 50.4	+16 58	72"	E103-a O	.03	-9.0	03 50	04 40	1	
1004	90 841	10 24.2	+29 04	"	"	"	-9.0	04 45	06 05		
1005	90 746	10 30.7	+25 14	"	"	"	-9.5	06 22	07 12	2	
	Focus test 2 P.T.R.										

Dome Temp. Focus Dome Temp.

Dome Temp. 0° F

Focus 12.934

Dome Temp. -8° F

Transparency Conditions very good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 14 W	26 34	0!	8 10	K0	2-2-2	[illegible]	Cancel
3 20 W	28 46	0	8 90	K2	2-2-2	8 "	Cancel
4 15 W	25 00	0	3 14	K0	2-2-2	2 "	good
					8/6	9	all right
						1 PH no good	
						2 PH [illegible]	

Date ~~June~~ Jan 17-18, 1954 Observer L- Julian Day 2434760

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21.006	(BD +49°967) L Pers 1056	03 26.5	+49 59	I-12½	E-1030	set .008	-11.1	19 15	20 59	1	0 58W

Dome Temp. +10°F

Transparency Conditions

Focus 12.934

Clouds at sunset. delayed start.

Dome Temp.

Ending Time L.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 [illegible]	0 58W	50 07	0	9.2	A_2	2-2-2	Set 2 ℄ Pers. Prog. clouds from 20.40 clouding over completely then light snow. Cloud at 21.30	fair

1 P.H. loaded Ilford

1 P.H. loaded Eastman +12

H on [illegible]

	NC	SE	NTW	STW	S	SW	ME
Jan 19	+1.9^{4}	+18.5^{43}	−12.8^{5}	−.1^{m}	+26.0^{5}	+10^{5}	−1.5^{5}
20	+2.5	+15.4	+0.8	+.2^{m}	+26.9^{5}	+26	−6.8

Date Tues–Fri Jan 21/22, 1954 **Observer** PK – Hr **Julian Day** 2434764.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	Hour Angle End
21017	ED +46° 785	03 30.6	+47 04	I-12½	E103a-O	.018	−8.2	1[illegible] 27	2h 07	3	
21018	" 47° 8[illegible]	03 [illegible].8	+47 51	"	"	"	−8.5	20 12	21 42		
21019	HD 26821	05 52.8	+29 24	"	"	"	−9.3	23 07	00 07	1	0103E
21020	" 26976	08 54.4	29 03	"	"	"	−9.9	0014	0146	1	0[illegible]

Dome Temp. +8°F

Focus 12.934

Dome Temp. +1°

Transparency Conditions 1/2 of sky good, clouds delayed starting because telescope + RA drive motion noticed. Called for L

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	C 10.5	47 12	C!	9.0	F3	2-2-2	set 2 clear prisms, # 1218	good
	[illegible]	47 55	0	8.8	F7	2-2-2	8 1225 cirrus accumulation	good
	0103 E	29 10	0	8.56	K2	2-2-2	2 AS-25 clouds gone at 23h [illegible]	good
	0035 W	2849	00	8.51	K5	2-2-2	2 " " 0014 Haze + Thin Clouds	good
						3/6	15 " " 0200 Cloudy	15 min T

3 Pitts Engaged T8

1 " Hi Speed

Flow Mtr

Generator Pilot Run T

	HC	SC	MTW	STW	S	SW	HE
Jan 22.	+3.8	+16.5	+15.8	+.3m	+28.5	+25	-3.9

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Date Fri Sat Jan 22-23 53 Observer O- H- Julian Day 2434765

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.	Hour Angle End
21011	BD+47° 822	3 19.1	+47 53	1.12	E136	Sml 608	-11.3	18 27	19 17	1	2.06E
21012	BD +47° 826	3 19.8	+47 35	"	"	"	-11.3	19 30	20 00	1	0.61W
21013	HD 71008	8 20.0	+28 58	"	"	"	-11.3	20 11	21 03	2	3.1E
21014	HD 76766	8 53.1	+26 19	"	"	"	-11.3	21 07	21 43	2	3.2E
21015	HD 73160	8 31.8	+26 36	"	"	"	-11.3	21 48	22 44	3	2.1E
21016	HD 73509	8 33.7	+28 51	"	"	"	-11.3	22 49	23 39	3	1.0E
21017	HD 76657	8 52.5	+26 52	"	"	"	-11.3	23 44	0006	1	
21018	" 77694	08 57.0	25 01	"	"	"	-11.4	0031	0105		
21019	" 77739	08 59.2	26 39	"	"	"	-11.6	0110	0152	2	
21020	" 76332	08 50.4	29 03	"	"	"	-11.6	0203	0231		

From Tuck & Ltr.

Dome Temp. +7° F

Focus 12.933

Dome Temp. +3° F

Transparency Conditions very good.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 06 E	+48 03	0	8.4	A3	2-2-2	Sel 2	fair
	0 26 W	+47 44	0	7.6	A	2-2-2	" 8	fair
	3 31 E	+28 44	0	8.42	K0	2-2-2	" 2 AG	fair
	3 23 E	+26 06	0	8.01	G0	2-2-2	" 8 AG	fair
	2 01 E	+26 23	0-1	8.70	K0	2-2-2	" 2 AG	poor
	1 08 E	+28 36	1	8.83	G0	2-2-2	" 2 AG	poor
	0 04 E	+26 38	1	8.54	G5	2-2-2	" 2 AG	fair
	0 07 W	21 46	1	8.40	K0	2-2-2	" 8 "	fair
	0 04 W	26 17	1-0	8.5:	K2	2-2-2	" 2 "	fair
	0 12 W	28 49	0-1	8.4	G5	2-2-2	" 8 " 0232 cloud from S.E.	poor
						8/6	" 5	
							2 P.H. E 103-0-0 T 1	
							1 " H. Spl.	
							H in M.	

Date Sat Jan 23-24 1954 Observer L— Julian Day 2434766

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21021	H.D. 72559	08 28.5	28 47	I-12½	E-103a-O	Set .008	-10.1	21 00	22 00	1	2 38 E
21022	" 74260	08 37.9	27 36	"	"	"	-10.1	22 04	23 04		1 47 E

Dome Temp. †
Focus 12 7
Dome Temp.

Dome Temp. +16°F

Focus 12.933

Dome Temp.

Transparency Conditions

Clouds at sunset and early evening.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 00	2 38 E	28 34	0	8.53	G5	2-2-2	Set 2 AG. 25	F
3 14	1 43 E	27 22	0-1	8.98	K2	2-2-2	Set 8 " " clouds from 22.50 on	fair
							Temp rising, mirror seeing bad	
							cloud for night 23.00 L-13h	

Date Thurs. Jan. 28-29 1954 Observer L-Hr Julian Day 2434771.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21023	H.D. ~~30703~~ 30410	~~04 41.8~~ 04 42.3	~~43 06~~ +43 21	I 12½	E 103a-O	set .008	-10.4	19 22	19 52	1	0 41 E
21024	H.D. 48640	06 39.3	24 46	"	"	"	-10.4	20 22	21 06	1	1 23 E
21025	" 74348	08 38.4	28 50	"	"	"	-10.4	21 13	21 57	2	2 21 E
21026	" 74624	08 39.9	28 43	"	"	"	-10.4	22 00	23 06	2	1 20 E
21027	" 75935	08 47.9	27 18	"	"	"	-10.4	23 11	0031	3	00 04 E
21028	" 76866	08 53.8	25 00	"	"	"	-10.4	00 32	0224	3	2 17 W
21029	" 78271	09 02.3	21 52	"	"	"	-10.4	0229	0341	1	1 40 W
21030	" 85128	09 46.6	25 36	"	"	"	-10.5	0346	0496	1	2 31 W
		Focus 12.5									

Dome Temp. +12°F

Transparency Conditions

Focus 12.933

Dome Temp. +8°F

Lost considerable time trying to find 1344, 609 in A Pers. these positions should be checked.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				8.8	G5			
	0 41 E	43 27	0	~~8.3~~	~~G0~~	2-2-2	Set 2 Iron Bidelman's star → HD 30414 (9 G5?)	
	V 23 E	24 42	0	8.16	K2	2-2-2	Set 8 A.C. Prog. for Cr.	fair
	2 31 E	28 35	0	8.21	G0	2-2-2	Set 2 " "	good
	V 29 E	28 31	0	8.64	G0	2-2-2	Set 8 " "	fair
	0006 E	27 04	0	8.77 8.75	K0 ~~K2~~	2-2-2	Set 2 " "	fair
	014 W	24 46	0	8.71	K0	2-2-2	" 8 " " 0345 Clouds S.W.	fair
	025 W	27 42	2	8.29	G5	2-2-2	" 2 " " 0445 Clearing	fair
	031 W	25 18	0	8.63	K2	2-2-2	" 8 " " 0410 Clouds & haze	good
						5/6	" 5	all night

P.Tl. # 2 E 103-00
" " 1 Hi Speed
Plates Needed
Dome Ht.

	HC	SC	Mtn	Sta	S	SW	ME
Jan. 29	~~8.46~~ ~~10.7~~	~~22.5~~ +11.8	-29.3	±.5	+11.0	-11.2	-1.2
Feb. 1	+10.5	+24.2	~~+38.7~~ +21.3	+.5	+34.7	-9	+1.5

Sun Jan 31 { Clouded in shortly after sunset: Ho
Variable cloudiness thereafter.

317

Date ~~Tues~~ Feb ~~2-3~~ 4/54 Observer Hd- Julian Day 2434776.5

Wed " 3-4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21031	HD75216	08 43.6	29 49	1-12	E103a0	008	+1.0	21 15	21 57.2	2	E232
21032	74811	08 41.1	28 32	"	"	"	+1.0	22 02	22 36	2	E131

Dome Temp. 2
Focus
Dome Temp.

Dome Temp. 26 F Clearing about 20 on Transparency Conditions

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 57 2	E 2 32	29 37	0	8.8	Ko	2-2-2	AG Sect 2	Good
2 16 2	E 1 31	28 19	0	6.7	Go	2-2-2	" " 8 Clouds.	fair

	Me	SC	Hyde	Stru	J	Sw	ME
Feb. 3	+11.5 s	+23.8 s	+21.5 s	+.4 m	+34.8 s	-3 s	+2.5 s
5'	+12.5	+25.2	+17.5	+.3 m	+34.1	0	+2.5

Date Feb 5/6 1954, Fri-Sat **Observer** Fox - **Julian Day** 2434779

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21033	HD. 76010	08 48 4	+27 18	I +12½	E103-a-O	Set .008	-2.0	22 00	22 38	3	3.05
21034	79273	09 08 6	+25 26	"	"	"	-2.0	22 42	23 02		1.68

Dome Temp. +24°F

Focus 12.933

Dome Temp.

Transparency Conditions Considerably cloudy

The electric clock needs to be reset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	1 30 E	27 05	1	8.38	K5	2-2-2	sol 2, +G 25 prog.	1 weak
[illegible]	1 14 E	25 11	1	7.99	K0	2-2-2	8 " Too much clouds	weak
							1 PH 103-a-0	

Date Sat-Sun, Feb 6/7, 1954 **Observer** – BSC **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21 025	HD. 80617	09 13 4	+26 40	I 12"2	E103-a-O	sec L .008	-60	00 50	01 20	4	
21 026	80327	09 14 0	+24 51	"	"	"	-60	01 27	01 57		
21 027	81855	09 23 1	+26 39	"	"	"	-60	02 02	03 12	1	
21 028	83097	09 31 0	+28 13	"	"	"	-58	03 20	03 50		

ome Temp. +15°F

Transparency Conditions Good

ocus 12.9.33

ome Temp. +12°F

our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 54 E	26 26	0	7.93	KO	2-2-2	Sgt 2 , AC 2.5 inch	fair
1 30 W	24 26	0	8.00	GO	2-2-2	8 "	fair
2 36 W	26 24	0	8.71	KO	2-2-2	2 " strong wind	good
3 05 W	27 57	0	7.05	KO	2-2-2	8 "	fair
						Lantern by moving beacon by hand	
						3PH E103-a-0	

	HC	SC	HTW	STE	S	SW	HE
Feb. 8	+13.3s	+26.8s	+18.0s	+.2m	+36.8s	+5.3s	+4.2s
10	+17.5s	+32.9s	+23.5s	+.3m	+42.9s	+13.7s	+2.5s

Moved from Feb 8/33
clear at 1:30
Rain & wind ceased early
Feb 10 Hazy & dry

Date W. Feb 10/10 Observer HD Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
21031	H 76766	03 53½	25 19	I.R.	E	1½	+06	2025	2100	03 50
21032	~~HD 79373~~	~~09 08½~~	~~25 [illegible]~~			1				

ome Temp. 27°

ocus 12.734

ome Temp.

Transparency Conditions Some Cloud

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	02 50E	26 08	[illegible]	[illegible]	G [illegible]	2-3-[illegible]	S-t-2 A-L- (Written by left hand)	Nothing
				[illegible]	K [illegible]		Clouds !	
							2 PH E 103 AP	

Date Thurs.-Fri. Feb 11-12/54 Observer -H.- Julian Day 24[illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21039	H.D. 76766	08 53.1	28[6] 19	I-1/2	E-3	.008	-7.3	0054	0141	3	
21040	" 79373	09 08.6	25 26	"	"	"	-7.8	0151	0239	"	
21041	" 85946	" 50.2	27 19	"	"	"	-8.0	0247	0417	4	
21042	" 114762	13 07.5	18 02	"	"	"	-8.0	0428	0530	"	
21043	" 109552	12 30.5	29 23	"	"	"	-8.2	0537	0637	1	
	[illegible]	[illegible]	[illegible]	[illegible]	2-415.						

Dome Temp. +5°F 0510 −8°F in Car. Transparency Conditions Good.

Focus

Dome Temp. −5°F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0157W	2605	000	8.01	G0	2-2-2	Set 2 A.G. 25 4-in Cm	good
	0237W	2513	00	7.99	K0	2-2-2	" 8 " " "	good
	0334W	2702	000	8.51	K0	2-2-2	" 2 " " " "	good
	0130W	2745	000	8.2	F7	2-2-2	" 8. Std. Vel.	fair
	0315W	2905	00	8.39	G0	2-2-2	" 2 A.G.	good
						8/6	" 8	

3 P.H. E 103.-0

Plates Needed

	MC	SC	MTW	STW	S	SW	ME
Feb. 12	+15.3	+29.1	+27.3	+.3m	+39.1	+12	−2.2
15	+16.8	+31.2	+23.5	+.5m	+41.0	+21	−2.8
17	+18.7	+32.9	+21.5	+.4m	+42.7	+23	0.0

Date Wed Thurs Feb 17-18/53 Observer Ho - Ir Julian Day 2434791

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21044	HD 30353	04 41.8	+43 06	I 12	E103a0	.016	+2.7	18 35	19 01	3	
21045	HD 71028	08 20.1	+28 45	"	"	"	+2.8	19 11	20 06	3	
21046	HD 77729	08 59.2	+26 [illegible]	"	"	"	+2.8	20 24	[illegible]		
21047	HD [illegible]	09 31.7	+25 [illegible]	"	"	"	+2.9	21 38	22 23	4	
21048	HD 76407	[illegible]	[illegible]	"	"	"	+2.8	22 30	23 10		
21049	HD [illegible]	08 31.2	+26 [illegible]	"	"	"	+2.7	23 14	[illegible]	1	
21050	HD 73504	08 [illegible]	+28 [illegible]	"	"	"	+2.8	00 09	[illegible]		
21051	A.G. 47[illegible]	08 46.1	26 [illegible]	"	"	"	2.8	01 07	[illegible]	2	
21052	H.P. 75646	" "	26 05	"	"	"	2.3	03 40	03 20		
21053	A.G. 4856	09 02.0	27 57	"	"	"	2.2	03 28	[illegible]	3	
	[illegible]	[illegible]	[illegible]	[illegible]		.016					

Dome Temp. +36
Focus 12.933
Dome Temp. 33

Transparency Conditions Good (Misty)

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	2.0 14E	+43 13	00	8.3	G0p	1-1-1	Bidelmanni *. Field as in 20752	fine
	02 46E	+28 34	00	8.9	K0	1-1-1	Set 2 AG - No focus control - phoned L.	
	02 31E	+26 28	00	8.6	K2	1-1-1	Set 8 AG Trans pretty unsteady - tip.	
	01 44E	-24 14	00	7.4	G0	1-1-1	Set 2 AG - Repaired pan motion	
	0 10W	+28 52	0-	7.0	K0	1-1-1	Set 5 AG - Hot lights! Light going off & on.	
	00 18W	+26 22	0-	7.7	K0	1-1-1	Set 2 AG -	
	0155W	20 40	00	8.8	G0	1-1-1	Set 8 AG -	
	0321W	25 55	0	9.10	G0	1-1-1	" 2 " V-, W-1,	
	0404W	11	0	8.51	K0	1-1-1	" 8 "	
	0444E	7 13	0	7.35	G0	1-1-1	" 2 " Wind 0423	fine
						4/3	" 8	centre of red
							due to wind.	
							1 P.H. to E 103a - 0.	
							H - M.	

Date Thurs Fri Sat 18 19 1954 **Observer** O - Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21054	HD 75663	8 46.2	-29 14	3-12	E103a-O	Set .016	+7.4	19 32		4	
21055	HD 77444	8 57.4	-27 37	"	"	"	+7.5	20 02		4	
21056	HD 79887	9 05.5	+25 49	"	"	Set .008	+7.5	20 35		0	
21057	HD 82440	9 46.1	+28 15	"	"	"		21 28		1	
21058	HD 85615	9 47.9	+26 07	"	"	"	+7.4	22 10		2	
21059	HD 85976	9 50.4	+26 28	"	"	"	+7.3	22 31		2	
21060	HD 86165	9 51.7	+25 46	"	"	Set .016	+7.4	23 10		2	
21061	HD 86801	9 55.8	+29 02	"	"	"		23 54		3	
		0955.0		"	"			°			
21063	88008	10 03.7	2502	"	"	.016	7.3	0 13		1	
21064	88416	10 06.6	1736	"	"	"	7.3	0 2			
21065	89629	10 15.5	28 15	"	"		7.2	0 25			
21066	89631	10 15.5	21 15	"	"	"	7.0	0 32		2	
21067	89630	10 15.5	3725	"	"	"	7.0	0 41	0 4	2	
21068	90183	10 17		"	"	"	7.0	0 45	0 3	3	
21069	115339	13 11.5						0 55	0	3	

Dome Temp. +40

Focus 12.933

Dome Temp. 32

Transparency Conditions good

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.			REMARKS	Quality
	3 15E	+29 01	1+	8.75	K2	1-1-1	Set 2	AG 25	Focus drive slipping badly	fair
	2 54E	+27 21	1-2	8.93	K2	1-1-1	" 8	"		fair
	2 01E	+25 36	1-2	8.89	K0	2-2-2	" 2	"		fair
	2 07E	+7 58	1	8.17	K0	2-2-2	" 8	"		fair
	1 41E	+25 54	1	8.07	K2	2-2-2	" 2	"		fair
	1 11E	+26 13	1	8.20	K0	2-2-2	" 8	"		fair
	0 [illegible] E	[illegible]	0	8.96	K0	1-2-1	" 2	"		fair
	[illegible]	[illegible]	0	8.93	G0	1-1-1	" 8	"		fair
	[illegible]	[illegible]	0	[illegible]	G2	2-2-2	" 2	"	3 P.H. +10 E 1.03 0	fair
	0 13W	2 17	0	8.72	G5	2-1-1	" 8	"		fair
	0 21W	2 20	0	8.76	K0	1-1-1	" 2	"		fair
	0 23E	27 57	0	8.49	K0	1-1-1	" 8	"		fair
	0 19W	2 60	0	8.65	G2	1-1-1	" 2	"		fair
	0 41W	2706	0	8.75	G0	1-1-2	" 8	"		fair
	0 50W	2450	0	8.79	G2	1½-1-1	" 2	"		fair
	0 25W	2752	0	[illegible]	[illegible]	1-1-1	" 8	"		fair

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Date Sat Sat Feb 2-3/54 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
21070	HD 76752	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+8 H	18 40	19 26	1	[illegible]
21071	HD 76752	08 53.0	25 48	I-12	"	"	8.2	19 35	[illegible]	2	E 3.22
21072	HD 76864	08 53.3	29 24	"	"	"	8.4	19 59	20 39	2	E 2.58
21073	AG 4835	09 02.5	-27 56	"	"	.016	8.3	20 44	21 34	4	E 2.2
21074	AG 4836	09 02.5	-27 57	"	"	"	8.2	21 25	[illegible]	4	E 1.2
21075	40.78277	09 02.2	27 58	"	"	"	8.2	22 07	22 47	1	E 0.5
21076	HD 78887	09 05.5	25 49	"	"	"	8.2	22 50	[illegible]	1	W 1.2
21077	HD 78967	09 06.0	29 17	"	"	"	8.2	23 32	0 16	2	[illegible]
21078	" 79814	09 07.7	34 32	"	"	"	8.2	00 24	01 00	11	[illegible]
21079	" 79318	09 08.3	25 43	"	"	"	8.1	01 08	01 [illegible]	3	[illegible]
21080	" 80217	[illegible]	26 4[illegible]	"	"	.008	8.0	01 5[illegible]	02 33	4	[illegible]
21081	" 80327	09 14.6	29 51	"	"	"	8.0	02 49	03 07	4	[illegible]
21082	" 107253	12 28.5	25 00	"	"	"	8.0	03 16	04 46	4	[illegible]

Dome Temp. 42 F

Focus

Dome Temp.

Transparency Conditions O.K.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	Ø 20m	43 12	0	[illegible]	G0	2-2-2	Set 2 Bad Image, Ø	fair
	E 322	25 36	0-1	7.79	G5	2-2-2	Set 2 AG	
	E 238	29 12	1	8.56	K2	2-2-2	" 8 AG	
	E 2 02	27 42	1	(9.3s)	G0	1-1-1	" 2 AG S. foll. Ø pair.	
	E 1 21	27 42	1	(9.3s)	G0	1-1-1	" 8 AG N pair " "	
	E 0 38	27 42	1-0	8.89	G5	1-1-1	" 2 AG	
	W 0 02	25 37	0	8.89	K0	1-1-1	" 8 AG	fair
	0 0 4 3 W	29 02	0	8.96	K2	1-1-1	" 2 AG 0315 Haze	fair
	0 1 3 E	24 47	0	8.75	K0	1-1-1	" 8 " + Clouds	fair
	0 2 16 W	25 29	0	8.82	K0	1-1-1	" 2 "	
	0 2 46 W	26 25	0	7.93	K0	2-2-2	" 8 "	
	0 33 W	24 36	0	8.00	G0	2-2-2	" 2 "	fair
	0 1 56	24 41	00	8.70	M0	2-2-2	" 8 HC SC MTW STW S SW ME	
							Feb. 19 11 R +5 19.3 +34.5 +14.3 +.2m +44.0 +28 -1.5	
							22 +26.2 +36.2 +13.2 +.2m +46.2 +33.2 +4.2	
							2 P.M. +1	
							H	

Date Nov - Dec 1911 - 23/24 Observer AC — HC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21083	+19° 1779	7h 24m	+19° 10′	I 12	Σ 103-0	.016	42°	18 [illegible]	19 [illegible]	1	[illegible]
21084	HD 76866	8 53.8	+25 50	"	"	"	+1.7	19 54	21 [illegible]	1	[illegible]
21085	HD 76934	8 54.8	+29 03	"	"	"	+1.6	20 [illegible]	21 15	2	[illegible]
21086	HD 77056	8 58.4	+29 41	"	"	"	+1.6	21 21	21 [illegible]	2	[illegible]
21087	HD 76957	8 52.5	+26 [illegible]	"	"	.008	+1.5	22 [illegible]	[illegible]	3	[illegible]
21088	HD 76764	8 52.1	+26 19	"	"	"	+1.5	22 57	23 [illegible]	3	[illegible]
21089	HD 76764	8 [illegible]	+26 19	"	"	"	+1.6	21 [illegible]	00 36	4	[illegible]
21090	" 77694	08 59.0	25 01	"	"	"	1.3	00 31	01 21	1	[illegible]
21091	" 77942	09 00.4	26 31	"	"	"	1.2	01 34	02 04	1	[illegible]
21092	" 103614	11 50.8	26 01	"	"	"	1.2	03 11	04 41	1	[illegible]
21093	H. 120 Eq	13 46.6	27 37	"	"	"	1.2	04 47	06 21	3	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. 28°F

Focus

Dome Temp. 3-1

Transparency Conditions

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-1:49	+17 03	0	9.0	G0	1-1-1		
	-2:36	+24 47	0-1	8.74		1-1-1		
	-1:01	+28 50	0-1	8.81		1-1-1		
	-1:15	+29 25	1			1-1-1	SA 20983 finder field E	
	-0:14	+26 40	0-1			2-2-2		
	+0:27	+24 04	0-1			2-2-2		
	01:41	+21 11	0			2-2-2		
	02:11W	24 46	0	8.40	K2	2-2-2		
	03:53W	26 19	0	8.6:	K2	2-2-2	0215 Haee.	
	02:40W	25 40	0			2-2-2		
	02:25W	27	00			2-2-2		
						3/0		

3 P. H. + 7 E 1030-0

	UC	SC	N+W	S+E	S	W	E
Feb. 24	+22.3	+37.6	+14.5	+.1 m	+47.8	+54 s	+5.0 s
26	23.0	+39.2	+17.8	+.2 m	+49.4	+38.9	+5.3

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Date Fri Sat Feb 26-27/54 **Observer** Ho- **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21094	HD 3U353	04 41.8	+43 06	I 12	Ei 3a-G	1st 0.008	+2.0	18 41	19 33	2	
21095	HD 77694	[illegible]	[illegible]	"	"	1st 0.016	+2.0	19 44	20 10		
21096	HD 79214	09 07.7	+24 42	"	"	1st 0.008	+1.9	20 16	21 16		
21097	HD 80819	09 16.9	+26 12	"	"	1st 0.016	+2.0	21 23	21 59	3	
21098	HD 83264	09 21.8	+24 51	"	"	"	+1.9	22 08	22 54		
21099	HD 83632	09 24.8	+26 26	"	"	"	+2.0	23 [illegible]	23 29	4	
21100	HD 83820	09 25.9	+27 20	"	"	"	+2.0	23 33	00 13		

Dome Temp. +22

Focus

Dome Temp. +27

Transparency Conditions Fair, some cloud (imp... 1 lot ...)

336

Reading Time U.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1	00 55 W	+42 12	2	8.3	Gop	2-2-2	Bad clouds 1st, Field ac. m. 30750.	fair-poor
2	22 45 E	+21 46	0	8.4	K0	1-1-1	1st 2 A.G. (some cirrus)	fair
3	01 48 E	+24 28	0	8.75	K0	2-2-2	2 A.G. (cloudy 2nd)	poor
4	01 13 E	+25 50	0-1	8.85	G5	1-1-1	1st 2 A.G.	poor
5	00 31 E	+24 35	0-1	8.77	G0	1-1-1	1st 2 A.G.	poor
6	00 02 E	+26 11	0-1	8.72	K0	1-1-1	1st 2 A.G. (23+47)	poor
7	00 41 W	+29 34	0-1	8.75	G5	1-1-1	1st A.G. (light cloud from S) a.c. rising	fair

	HC	SC	HRC	SRC	S	SW	HE
March 2	+23.8 s	+41.0 s	−33.2 s	−.6 m	+31.9 s	−19 s	−8.0 s

4PH. + 4E 1032.0

337

Date Tues Mar 23/54 Observer Hd- Julian Day 2434804

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.A.	Hour Angle End
21101	HD60778	7 31.0	+0 04	I-12	E103a-O	016	+0.1	19 11	all end 1955 20 21	7	

Dome Temp. 33 F

Transparency Conditions Fair

Focus.....

Dome Temp.....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	-9 E 0 50	-0 02	0	7.2	F1Z	1-1-1	Set 2 Ro Hi Vel. Proj. Hour 195°	weak
							HC SC HMC STC S SW HE	
							March 9 -5.3 -4.6 +18.0 +2.2 -5.8 -9 -7.0	

Date Fri Sat Mar 5-6 /54 **Observer** O - H - **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21102	HD 81555	9 23.1	-26 19	I-2	E103a-O	.012	-4.3	0 23	0.49	2	
21103	HD 82331	9 26.2	-27 16	"	"	"	-4.3	0 53	1.19	2	
21104	" 91842	10 31.2	28 18	"	"	"	-4.3	0227	0310	3	
									Partial		
						0.9/15.					

Dome Temp. +15

Focus 12.933

Dome Temp. +8

Transparency Conditions Scattered clouds until 23h. clearing

340

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	1 Eg W	+26 25	0-1	8.71	K0	1-1-1	Sc/2 fG.	Focus slipping going "up"
19	032 GW	27 00	1	396	G5	1-1-1	" 8 AG	0127 Clouds
	—	28 00	0	8.72	K0	1-2	" 2 " for Cr.	2155 Clearing
						2/3	" 8	0310 Clouds
								0340 Solid
							1 P.H, +4	

fwork

fair

fwork

all night

341

Date Sun Mon Mar 7-8 1954 **Observer** O – H **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
21105	HD 81058	9 18.3	+26 20	3-12	E103a-O	S.T. .008	+0.3	22 19	22 47	4
21106	HD 83098	9 31.0	+25 15	"	"	"		22 51	23 17	
21107	HD 77958	9 00.4	+26 31	"	"	S.T. .016	+0.3	23 26	0 04	
21108	HD 78194	[illegible]	[illegible]			"	[illegible]	[illegible]	[illegible]	
[illegible]	" [illegible]	[illegible]	[illegible]	"		.008	[illegible]	[illegible]	[illegible]	
[illegible]	" [illegible]	[illegible]	[illegible]			"	0.0	0 1 56	[illegible]	

Dome Temp. +23°F

Focus 12.313

Dome Temp.

Transparency Conditions fairly good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 09 11	+22 52	0	3.02	K0	2-2-2	W 2 AG.	fair
0 19 11	+27 57	1	3.05	K0	2-2-2	" 3 AG	fair
0 44 11	+25 19	0-1	3.13	K0	1-1-1	" 2 AG	fair
2 27 11	+41 1	0	3.01	K0	1-1-1	" 2 "	fair
3 34 11	+2 3	0	3.05	K0	1-1-1	" 2 "	fair
3 23 11	+2 10	0	3.01	K0	1-1-1	" 2 "	fair
					8/6	1.5	

Plates left in potting room were damp. They are now in potting room. Dry today. Find very little that they readily are dried and perhaps new up. 2 in plate [illegible]

2 P.H. + 3

Date Mon-Tue Mar 8-9 1954 Observer MR - Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
21111	HD 30353	04 41.8	+43 .06	I-12	E103a-0	Set .008	0.0	18:54	19:20	3	+1:21
21112	HD 60778	07 31.0	+ 0 04	"	"	"	0.0	19:32	21:12	4	+0:25
21113	HD 85440	09 46.7	+28 .15	"	"	"	0.0	21:21	22:05	1	-0:37
21114	HD 86168	09 51.7	+25 16	"	"	"	0.0	22:10	23:12	1	+0:24
21115	HD 85428	09 46.6	+25 36	"	"	"	0.0	23:20	23:52	2	+0:9
21116	BD +27° 1811 ~~HD 84677~~	09 42.1 ~~09 41.1~~	+27 35 ~~+27 38~~	"	"	"	0.0	24:00	00:14	2	0:14

Focus last. 0.9/5.

Dome Temp. +29°F
Focus 12.934
Dome Temp.

Transparency Conditions fair; haze in W

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+1:21	+43 13	1	8.3	G0p	2-2-2	Set 2 Bidelman's star	strong
+0:25	- 0 02	1+	9.2	A1V	2-2-2	" 2 High Vel. haze	fair
-0:57	+27 58	1	8.49	K0	2-2-2	" 2 A.G.	fair
+0:04	+25 00	1	8.96	K0	2-2-2	" 8 A.G. haze	fair weak
+0:49	+25 20	2	8.63	K2	2-2-2	" 2 A.G.	
03 16W	+27 18	2-0	8.98	~~G0~~ K0	2-2-2	" 8 A.G. $\alpha = 09^h 42^m.1$ off 24:00 -- 00:30 haze	weak,
					8/6	" 5 -0256 Terrible	all night

Hom. M.

3 P.H. Ends +4 12

Mar. 9

NC	SC	NNE	SSE	S	SW	NE
-2.5	-2.3	+18.3	+2.7	-4.3	0	-4.8

345

Date Wed-Thurs Mar 10-11 1954 Observer Hdl – Hx (134) Julian Day

Dome Temp. +
Focus
Dome Temp.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
* ~~2417~~	HD60778	7 31.0	+ 0.04	I-12	E103aO	016	+2.6	19 49	20 11	1	
* ~~2418~~	HD 84937	9 41.1	-27 38	"	"	.008	+2.4	21 28	21 56	2	
* ~~2419~~	HD85615	9 47.9	26 07	"	"	"	+2.2	23 05	23 35	2	
21 ~~17~~ 18	HD 85976	9 50.4	26 28	"	"	"	2.3	23 39	00 19	3	
21 ~~17~~ 18	H.D. 86801	09 55.8	29 02	"	"	"	2.3	00 27	01 51	3	
*	" 99394	11 22.4	26 59	"	"	"	2.1	02 03		4	

* Completely fogged

Dome Temp. +30

Focus

Dome Temp.

Transparency Conditions Cloudy at sunset, clearing slowly.

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 32 W	+0 03	1	9.2	A1V	2-½-½	Roman Nose. Trouble with knee-piece; called for L.	Completely fogged
	W 0 09	27 21	0	8.98	G0	2-2-2	ell 2 AG Dome clouds.	Completely fogged
	W 0 39	25 53	1	8.07	K2	2-2-2	" 8 AG	
	0 12 W	26 13	0	8.20	K0	2-2-2	" 2 AG	Some good
	2 54 W	28 45	0	8.73	G0	2-2-2	" 8 "	good
	—	26 43	0	7.75	K2	2-4	" 2 " Cloud from completely fogged.	
						8/6	" 8 Closed at 5h 11m	
							1 P.H.T 4.	
							(1 on P)	
							Can't understand how these 3 plates became fogged. They were not the 3 we had were loaded at the beginning of the night. So we developed the plate which had been loaded at the end of the night. It was also fogged so we saved both the 4 unloaded plates — each a new box I. Shorter Hd + L.	
			Hv					

Date [illegible] Observer Ha- Hv - RK Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21119	HD 84577	09 41.1	+27 38	I 12	E 103a-O	set 0.008	+3 5	[illegible]	01 38	1	[illegible]
21120	HD 85615	09 47.9	+26 07	"	"	"	+3 3	21 4[illegible]	00 [illegible]		[illegible]
21121	HD 86460	09 [illegible]	+27 [illegible]	"	"	"	+3 2	[illegible]	[illegible]	2	[illegible]
21122	HD 86570	09 54.4	+27 02	"	"	"	+3 1	23 04	[illegible]		[illegible]
21123	HD 89629	10 15.5	+28 15	"	"	"	+3 7	00 17	01 21	3	[illegible]
21124	" E1691	10 15.5	27 13	"	"	"	2.9	01 30	[illegible]		[illegible]
21125	90 441	10 21.0	+25 10	"	"	"	+2.5	02 36	[illegible]	4	[illegible]
21126	91 955	10 31.3	+26 41	"	"	.016	-24	03 54	[illegible]		[illegible]
[illegible]	BD +13°2698	12 25.0	+13 06	"	"	"		04 40		5	[illegible]
21127	HD 122052	13 54.3	+25 12	"	"	.008	+28	04 57	05 31	1	[illegible]
21128	HD 123782	14 04.6	+49 52	"	"	"	-28	05 37	[illegible]		[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. +29

Focus

Dome Temp. +17°

Transparency Conditions Cleared at sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 08E	+27 22	00	8.98	G0	2-2-2	AG Set 2 } No spots.	fair
20 30E	+25 5N	0	8.07	K2	2-2-2	AG Set 8 }	fair
20 2[illegible]	+27 44	0	8.15	G0	2-2-2	AG Set 2 } Spots	fair
1 10N	+24 47	0	[illegible]	[illegible]	2-2-2	AG Set 8 }	fair
2 02W	27 59	0	8.49	K0	2-2-2	AG Set 2	fair
3 11E	26 55	0	8.65	G0	2-1-2	" " 8	fair
4 21E	26 54	0	8.86	[illegible]	2-2-2	" 2	fair
4 54W	26 24	0	8.92	K0	2-2-2	" 8	too weak
~~2 55W~~		0	10.0	F2	1-	Hi-Val. Set 2	
2 55E	24 55	0	7.92	G0	2-2-2	AG Set 5	fair
2 55W	19 40	0	6.72	M2	2-2-	Hi-Val. Set 8	good

10 min exposure

12H [illegible] with E 103-a-0

Cannot find the [illegible]

	MC	SC	M+W	STW	ME	S	SW
	S	S			S	S	S
March 12	-2.2	+.4	—	—	-7.8	-1.8	+1.7

Air tends to be heavy.

Date May June March 16/54 Observer O — Hr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.B	Hour Angle End
~~21128~~	HD 84377	7 00.1	+25 01	2.72	E103a-O	.008	---	19 23		2	
21129	BD 11° 1809	9 41.1	+27 38	"	"	.016	-3.7	23 19	00 03	3	
21130	HD 90932	10 24.2	27 51	"	"	"	-3.7	00 06	02 56	3	
21131	" 91685	10 30.1	29 37	"	"	"	-3.7	0104	0804	4	
21132	" 92108	10 33.0	+6 26	"	"	"	-3.7	0309	0319	4	
	A.G. 6249					.008		~~0330~~			
21133	H.D. 113658	13 33.2	27 18	"	"	.008	-3.8	0507	0557	1	

Filed under focus test.

Dome Temp. +23°F
Focus 12.933
Dome Temp. 24

Transparency Conditions Thin clouds moved in. Clouding in and clearing at 23h

1350

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				~~3.94~~	~~K2~~ 2	~~Ex 2~~	AG Clouded in mild 23h	
	1 34 W	+27 22	0	8.78	G0	1-1-1	" 2 "	fair
	0 144 W	27 34	0	8.95	K0	1-1-1	" 8 " 4 ~~pb loaded~~ +12.	fair
	0 247 W	29 21	0	9.10	G0	1-1-1	" 2 " for Cr. Windy, Image unsteady	clearing
	0 357 W	26 09	0	8.89	G5	1-1-1	" 8 "	fair
			00			2	" 2 " Trouble focussing. Bolt came off.	
	3 337 W	2 103	0	8.61	G5	2-2-2	" 6 "	two weak
						f/6	" 9	all night Centre weak.
							/ Pol +2.	
							Hg: 11-	
							HC SC HW SW SW S HE	
							March 13 -1.4s +2.4s +10s -.1s -1.2s	

1350

351

Date Tue - Wed, 1954 Mar 16/17 **Observer** Hd (RK) - L **Julian Day** 2434818

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.	Hour Angle End
2113 3	[illegible]	07 31.0	[illegible]	[illegible]	[illegible]	.016	0.0	19 52	20 17	2	[illegible]
2113 4	HD 53472	07 00.1	+25 01	"	"	.008	-0.2	20 31	21 01	3	1 16W
2113 5	HD 85946	09 50.2	+27 19	"	"	"	-0.2	21 09	21 43		0 50E
2113 6	HD 90567	10 22.3	+27 44	"	"	"	-0.2	21 50	22 40	4	1 11E
2113 7	HD 90672	10 23.1	+27 26	"	"	"	-0.2	22 45	00 15		1 09W
2113 8	" 90841	10 24.2	29 02	"	"	"	-0.2	00 20	01 30	1	2 23W
2113 9	" 90932	10 24.8	27 51	"	"	"	-0.2	02 00	03 10	1	4 02W
2113 10	" 106398	12 09.3	27 03	"	"	"	-0.2	03 14	03 38	2	2 46W
2113 11	AG. 6249	12 43.4	25 41	"	"	"	-0.2	03 41	05 21	2	3 50W

Dome Temp. +32° F

Transparency Conditions good

Focus

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 04 E	-0 03	2	9.2	+1.1	1-1-1	set 5 Hi-wd	Trans.
1 18 W	24 58	2	8.29	K2	2-2-2	set 5. AG 25 Shutter sonic at set 2 of minute	fair
0 51 E	27 04	2	8.51	K0	2-2-2	" 9 " No spots on plates. The spots need repairing	fair
0 21 E	27 25	2	8.65	G0	2-2-2	set 2 " Hazy	fair
1 08 W	27 09	2-1	8.96	K0	2-2-2	" 8 " Increasing clouds	poor
2 22 W	28 47	1	8.90	K2	2-2-2	" 2 " sky improving	fair
4 02 W	27 33	1	8.95	K0	2-2-2	" 8 "	fair
2 46 W	26 45	1	7.88	G5	2-2-2	" 2 " Strong N.W. wind rising.	fair
3 50 W	25 23	1	8.99	K2	2-2-2	" 8 " telescope jumping	poor

4 P.H.s loaded 1030.0 + 4

	HE	SC	4TH	H 5TH	M 5	5TH	HE
March 17	-.2 s	+4.3 s	+23.5 s	+.7 m	+1.5 s	+16.3 s	+53.5 s

353

Date (Wednesday) Thursday March 18 (17) 54 Observer Ho: Hr Julian Day 2435819:

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
21142	HD 60778	07 31.0	+00 04	I 12½	E103a0	Set 0.016	+2.0	19 07	20 07	1	00 [illegible]
21143	HD 30353	04 41.8	+43 06	"	"	Set 0008	+2.0	20 18	20 [illegible]	2	03 [illegible]
21144	BD+19°1749	07 246	+19 10	"	"	Set 0.016	+2.0	20 59	21 [illegible]	2	01 [illegible]
21145	BD+27°1811	09 (46.0) 42.1	+27 (21) 35	"	"	"	+2.0	21 51	22 [illegible]	3	00 [illegible]
21146	HD 84577	09 41.1	+27 38	"	"	Set 0008	+2.0	22 56	23 56	3	01 36W
21147	HD 90183	10 19.5	+25 07	"	"	"	1.9	23 59	00 19	4	[illegible]
21148	" 90442	10 21.4	27 10	"	"	"	1.9	00 53	01 [illegible]	0	[illegible]
21149	" 90567	10 22.3	27 44	"	"	"	1.9	0209	03 [illegible]	1	[illegible]
21150	" 133922	15 02.0	26 49	"	"	"	1.9	0336	0446	1	[illegible]
21151	1713313	15 54.6	25 52	"	"	.016	1.9	0452	05 [illegible]	2	[illegible]

Dome Temp. +34

Focus 12.933

Dome Temp. 26

Transparency Conditions Good

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	00 04E	-00 02	0+	9.2	A1 V	1-1-1	High Velocity Set 2	fair
	03 27W	+43 12	0+	8.3	G0p	2-2-2	Bidelman's Star Set 9	strong
	01 40W	+19 03	0-1	9.0	G0V	1-1-1	High Velocity Set 8	strong
	00 30W	+27 20	0-1	9.4?	K0	1-1-1	AG Set 2	strong
	01 36W	+27 23	1	9.0	G0	2-2-2	AG Set 8	fair
	01 51W	24 51	1	8.8	G5	2-2-2	AG Set 2	fair
	0.303W	26 53	0	8.86	G5	2-2-2	" " 8	fair
	04 28W	27 27	0	8.65	G3	2-2-2	" " 2	good
	0107W	26 36	1-	8.92	K2	2-2-2	" " 9	fair
	0110W	25 42	1-0	8.11	K5	1-1-1	" " 5 H+K emis.	strong
							" " 9	v. poor
							2 PH ~3.-0 photometered	
							H - M	

Date Thurs Mar 18-19/54 Observer L-Hr Julian Day 2434820.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21152	HD. 90346	10 20.7	25 14	J-12½	E-103A0	Set .008	+4.0	20 40	21 50	3	
21153	" 91164	10 26.4	25 14	"	"	"	+4.0	21 34	22 34	3	
21154	" 91348	10 27.7	28 18	"	"	"	+4.0	23 08	01 08	4	
21155	" 92456	10 35.4	26 13	"	"	"	3.9	01 12	02 43	11	
21156	" 115103	13 09.7	29 55	"	"	"	3.9	02 48	04 08	1	
21157	" 130500	14 43.5	25 53	"	"	"	3.9	04 15	05 37	11	

Dome Temp. + 34°F

Focus 12.933

Dome Temp.

Transparency Conditions Clouds at sunset

Waited, sky thinning somewhat, demonstrated telescope to Tutorial class.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	27 E	24 53	1	8.14	K0	2-2-2	A.G. 25 Set 2 haze	good
	0 27E	24 57	1	8.43	K0	2-2-2	" Set 8 haze clouds at 22.05	good
	2.205	28 01	1	8.77	G5	2-2-2	" Set 2 haze	fair
	0332W	25 57	0	8.33	K0	2-2-2	" " 2	good
	0 233	27 40	0	8.79	G5	2-2-2	" " 2 sky Improved a little	fair
	0 2 20W	25 39	0	8.96	K0	2-2-2	" " 8 [illegible]	weak
						3/6	" 5	Light

3 PM +8

Ham 4

	MC	SC	MTW	STW	S	SW	ME
Mared 19	+.5s	+6.0s	-2.0s	+.4m	+3.5.8	+20s	+3.3.4

Date Sun.-Mon. 1954 Mar 21,22 Observer Mc - Hr Julian Day 2434823.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
21158	BD +25° 1991	08 38.5	+25° 10′	I-12½	E103a-O	set .016	-3.0	19 13	20 51	2
21159	HD 74721	08 40.4	+13 38	"	"	"	-3.2	21 04	21 38	
21160	HD 86131	09 51.5	-20 02	"	"	set .018	-3.2	21 45	22 15	2
21161	HD 86650	09 55.0	+28 39	"	"	"	"	22 20	22 [illegible]	
21162	HD 91685	10 30.1	+29 37	"	"	"	"	22 07	22 [illegible]	4
21163	" 91855	10 31.3	26 41	"	"	"	"	0037	0201	
21164	" 92108	10 33.0	26 26	"	"	"	-3.1	0213	0253	1
21165	" 118658	13 33.2	27 18	"	"	"	-3.2	0401	0531	1

ome Temp. +24°F

ocus 12.032

ome Temp. 20° F

Transparency Conditions Good, windy

Finder field book missing

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 05E	25 00	0	9.6	F0	1-1-1	sel 2 Rowan Hill-rel. program Power off in 2036 for a moment	fair
	0 12E	13 16	0	8.7	B9	1-1-1	8 "	fair
	0 00	23 46	0	7.98	K0	2-2-2	2 AG 25	fair
	0 41W	22 23	0	8.26	G0	2-2-2	8 "	fair
	0 133W	29 20	1	9.42	A0	2-2-2	2 "	fair
	0 312W	26 23	0	8.92	K0	2-2-2	" 8 "	weak
	0 457W	26 08	0	8.89	G5	2-2-2	" 2 "	good
	0 335W	2? ??	0	9.0	G5	2-2-2	" 8 "	fair
						C/6	" 5	under the violet

3 PH. + 8 E 1.30

H. M.

	HC	SC	LITW	SCW	S	SW	ME
	s	s	s	m	s	s	s
Mar. 22	+1.7	+06.8	+4.5	+.4	-4.7	+.8	+2.2

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Date Jan-Feb 23-24/54 Observer Hd-L Julian Day 2434825.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21166	AG 3652	06 55.3	26 22	1-½	103a0	.016	+3.2	19 26	20 02	2	W 49m
21167	HD 55080	07 06.4	26 46	"	"	008	+3.2	20 06	20 42	2	W 1 17
21168	HD 55578	07 08.4	28 38	"	"	016	+3.1	20 47	21 23	3	W 1 57
21169	HD 57470	07 16.3	30 01	"	"	"	+3.0	21 27	22 07	3	W 2 38
21170	HD 69349	08 11.5	27 43	"	"	"	+3.1	22 10	22 30	3	W 3 20
21171	HD 71132	08 20.6	28 23	"	"	"	+3.0	22 32	23 08	4	W 3 58
21172	HD 84577	09 41.1	27 38	"	"	"	+3.0	23 14	23 54	1	W 4 45
21173	HD 87804	10 02.4	27 16	"	"	"	+3.0	23 57	00 37		W 5 34

Dome Temp. 3
Focus
Dome Temp.

Dome Temp. 32 F

Transparency Conditions

Focus

Dome Temp.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 02	W 49m	26 15	0	8.83	G5	1-1-1	Sct 2 Cu	fair
20 42	W 1h 17	26 39	0	8.19	K0	2-2-2	" 8 "	fair
21 23	W 1 57	28 33	1	8.96	K0	1-1-1	" 2 "	fair
22 07	W 2 33	29 55	1	8.89	K2	1-1-1	" 8 "	fair
22 50	W 2 01	27 34	1	8.49	K0	1-1-1	" 2 "	fair
23 28	W 2 30	28 13	1	8.92	K0	1-1-1	" 8 "	fair
23 [illegible]	W 1 56	27 22	1	8.98	G0	1-1-1	" 2 " Some thin clouds.	fair
00 37	2 18W	27 00	1	8.82	K0	1-1-1	" 8 " Light clouds	fair

Sky thickening, closed at 02:00

3 Pho loaded + 4 103a-O

	HC	SC	HTW	STW	S	SW	HE
Mar. 24	+2.8 s	+08.0 s	+6.0 s	+.4 m	+06.0 s	+29 s	+1.2 s
26	+8.8 s	+10.3 s	+6.3 s	+.4 m	+08.3 s	+26.0 s	+0.5 s

Date Fri-Sat 1952 Feb 26/27 Observer Rx - Hv Julian Day 2434828.8

⊙ 5h 43m 40.1s 3561.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
21174	+10 88018	10 03 7	+15 02	I-12½	E103-a-O	Set .008	-1.0	21 57	22 07	2	
21175	88533	10 07.5	+27 55	"	"	"	-1.2	22 15	23 25		
21176	89530	10 15.5	+27 25	"	"	"	+4.0	23 31	00 41	3	
21177	95363	10 55.5	27 40	"	"	"	+3.9	0048	0132		
21178	95364	"	24 37	"	"	"	+3.9	0137	0257	4	
21179	104784	11 58.9	25 30	"	"	"	+3.9	0302	0512	"	
	Zero Set			0715							

ome Temp. +32°F

Transparency Conditions good

Cloudy earlier.

ocus

ome Temp. 25°F

Telescope drifting south all night.

Ending Time E.S.T.	our Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0 :0	24 46	0	8.72	35	2-2-2	set 2 AG35	fair
	1 12W	27 37	0	8.70	G5	2-2-2	" 8 "	fair
	0 22W	27 05	0	8.75	G0	2-2-2	" 2 " What happen to Temp???	fair
	0 232W	27 21	0	7.93	G0	2-2-2	" 8 "	fair
	0 358W	24 16	0	8.82	G5	2-2-2	" 2 " Windy	two weak
	0 510W	25 10	0	9.00	G0	2-2-2	" 8 " Bottom Section of guiding eyepiece fell off.	1 weak
						P/O	" 5 Threads stripped?	4 weak

2 P.M.T.2
H.M.

	HL	SC	HTW	STW	S	SW	HE
Mar. 29	+5.3	+11.2	-.2	+.3	+9.4	-19.3	+4.1

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Date Tues-Wed Jan 31/54 Observer Hd - RK Julian Day 2434832.

@ 9 40 56.3 35 54.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P	Hour Angle End
21180	HD 83617	09 34.7	25 29	I-13	E103a-O	008	+1.0	21 56	23 16	1	NL 52
21181	BD +27° 1811	09 42.1	27 38.7	"	"	016	+1.0	23 23	00 13	1	
21182	HD 91840	10 31.2	+28 18	"	"	.008	+1.0	00 24	01 50	2	
21183	HD 94956	10 52.7/30.	+24 55	"	"	"	+1.0	01 57	02 35		
21184	BD +13° 2438	13 75.0	+13 06	"	"	.016	+0.6	02 42	05 02	3	
	Focus Test	2.T-L.				1008					

Dome Temp.....

Focus.....

Dome Temp. +22°F

Transparency Conditions Clouds earlier.

v 30 students of action 1a. Ho+O observed Haile 19.

v slight aurora after midnight.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W1 52	25 14	0	886	G0	2-2-2	alt 2. AG plug. Some haze.	weak
02 42W	27 49	0?	9.0?	?	1-1-1	" 8 "	v.w.
03 36W	28 00	0?	8.98	K0	2-2-2	2	good
03 54W	24 36	?	8.5	K0	2-2-2	8	good
03 40W	12 48	0	10.0	F2	1-1-1	5 Hi-val. Thin clouds very poor seeing	fair
					2/6	" 2	OK

39H +15

	HC	SC	MTW	STW	S	SW	NE
Max. 81	+6.5	+12.2	-7.0	+.2m	+10.4	-15.5	+3.0

Date Wed Thurs Fri 30/31 Jan 1 Observer Ho - Hr Julian Day 2434833

0 10 40 10.9 3552.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
21185	HD 67516	07 41.7	+6 [illegible]	[illegible]	[illegible]	[illegible]	+0.8	20 46	[illegible]	4	
21186	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	"	+0.7	21 [illegible]	[illegible]		
21187	HD 77318	09 08.3	+2 [illegible]	[illegible]	[illegible]	"	+0.4	22 09	23 15	1	
21188	HD 78008	10 03.7	+25 02	"	"	"	+0.4	23 18	00 24		
21189	HD 95363	10 55.5	+27 40	"	"	"	+0.4	00 29	00 59	2	
21190	" 95364	"	24 37	"	"	016	+0.4	01 15	0245		
21191	+51° 1664	11 20.6	50 55	"	"	"	+0.3	03 00	0440	3	
21192	HD 144579	16 01.5	39 24	"	"	008	+0.5	0452	0512		

Dome Temp. +27

Focus

Dome Temp.

Transparency Conditions Good

Cleared off after sunset

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 15W	+28 45	0	8.12	G5	2-2-2	Let's Go	Lucky
02 14W	+27 16	0	8.07	G5	2-2-2	Let's Go - Ends full [illegible] book meas. more pages !	fine
02 23W	+25 28	0	7.82	K0	2-2-2	Let 2 AG (Didn't add many for lack of room)	fine
02 35W	+24 45	0	8.72	G5	2-2-2	Let 8 " → Cooled temp control 3K.	fine
02 19W	+27 22	0	7.93	G0	2-2-2	" 2 "	fine
04 05W	24 20	0	8.82	G5	1-1-1	" 9 " 0100 Clouds	fine
05 37W	50 36	00	9.6	G0	1-1-1	" 2 Hi. Vel.	thin
01 28W	39 15	0	7.62	G8	2-2-2	" 8 Std. Vel. Haze	fairly
					1/6	" 5	[illegible]

1 P.A. & P.

Gen. M.

Date Thurs-Fri Apr 1-2 1954 Observer MR- HC Julian Day 2434834

0 11 39 23.7 3550.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
21193	HD 60235	07 28.4	+28 44	I-12½	E103a-0	set .016	+1.2	19:37	20:05	4	40
21194	HD 84440	09 40.2	+27 32	"	"	"	+1.1	20:26	21:12	"	-0
21195	HD 79373	09 08.6	+25 26	"	"	set .008	+1.1	21:20	21:42	1-	40
21196	HD 81058	09 18.3	+26 20	"	"	"	+1.1	21:48	22:12	33	41
21197	HD 87680	10 01.5	+29 44	"	"	"	+1.0	22:32	00:02	=	42
21198	" 92589	10 41.9	27 26	"	"	"	+1.0	00 14	01 14	3	
	99+94										

Dome Temp.
Focus 12.9
Dome Temp.

Dome Temp. 30°F

Transparency Conditions

Focus 12.933

Dome Temp. 29°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
+0 54	+28 36	0-1	8.60	K2	1-1-1	AG	ref 2	fine
−0 09	+27 14	0-1	8.40	K0	1-1-1	AG Hey Bill! Still confused abt. those stars!	8	good
+0 53	+25 12	1	7.99	K0	2-2-2	AG	2	fine
+1 11	+26 06	1	8.02	K0	2-2-2	AG	8	fine
+2 20	+29 28	1-0	8.21	G5	2-2-	AG Clouds 23:00 – 00:00	2	good
02 54W	27 08	0	8.37	K5	2-2-2	"	8	good
					2/6		" 5	Taurus

~~2nd~~ cl 1 – Haze

2 F.H. +4.

Hon. M.

	HC	SC	HCW	SHW	SW	S	HE
Apr. 2	−14.2 +7.8	+14.0	−14.2	+.2	−10	+13.0	−2.8

369

Date Sat Apr 3-4/54 Observer HL Julian Day 2434836

⊙ 13 37 43.4 35467

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.E	Hour Angle End
21199	HD83224 Town Flat	9 31.8	24 51	I-12	E1030	008	-4.8	21 13	22 25	4	W 1.0

Dome Temp.
Focus
Dome Temp.

Dome Temp. 19 F

Focus

Dome Temp.

Transparency Conditions

about 40 visitors. Showed 4 with 7¼"
Orion & Praesepe with 4".

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1 20	24 36	0-1	8.77*	F0	2-2-2	Set 2 AG prog. 22 04–09 Clouds & snow – more at 22 23.	too weak
OTB					8/6	" 8	

Date Mon-Tue 1954 Jan. 5/6 Observer Pok — Julian Day 2434838

0 15 35 54.7 35 42.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
21200	HD 30353	4H 41.8	+42 0	I-	E1	·008	+6 0	19 37	20 17	2	
21201	HD 88532	10 07.5	+28 47	"	"	·016	+6·0	20 28	21 18	3	
"	Focus to	S.T.K.				·008					

Dome Temp.
Focus
Dome Temp.

Dome Temp. +38° F

Transparency Conditions Good somewhat

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04 14 W	43 14	0	83	G0	2-2-2	pr - 5 Poor work (Fog) scans - + 9'0	good
00 15 E	27 39	0	892	K0	1-1-1	2 AG 25	fair
					8/6	8 ..... all night	
						3 + 4 loaded. Leaks needed	
						A spot missing in Sera spotter. Plates have not been spotted.	
						HC SC HTE STE S W S H E	
						Ap. 6 +10.2 +18.1 +9.2 +-1 m -11 s +17.1 -4.8	

Date Thurs-Fri Ages 8-9 1954 Observer O - H - S Julian Day 2434841.

0 18 32 53.1 35536.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
21202	HD 83224	9 31.8	+24 51	I-12	E103a-O	Set .008	+4.3	19 35	21 05	4	
21203	HD 93242	10 40.9	+26 08	"	"	Set .016	+4.3	21 08	21 48	4	
21204	HD 90442	10 21.4	+27 10	"	"	"	+4.3	21 53	22 33	1	
21205	HD 90682	10 23.1	+27 26	"	"	"	+4.0	22 36	23 16	1	
21206	HD 91348	10 27.7	+28 18	"	"	"	+4.0	23 21	00 01	2	
21207	HD 91255	10 31.3	26 41	"	"	"	+4.0	00 04	01 24	3	
21208	" 99594	11 22.4	26 57	"	"	"	+4.0	01 31	02 31	3	
21209	" 114762	13 07.5	18 02	"	"	"	+4.0	02 37	02 57	1	
21210	+11° 2910	16 01.2	10 57	"	"	"	4.0	03 05	03 01	1	
						"					

Dome Temp. +33° F

Transparency Conditions Clear Excellent!

Focus 12-933

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
8 19 W	+24 36	0	8.77	G0	2-2-2	12 AG.	Lunch
0 06 E	+25 51	0	878	G5	1-1-1	8 "	good.
0 58 W	+26 52	0	8 86	G5	1-1-1	" 2 "	from
1 40 W	+27 08	0	8 96	K0	1-1-1	" 8 "	Lunch
2 20 W	+26 00	0	8 77	G5	1-1-1	" 2 "	!
03 40 W	26 24	0	9.2	K0	1-1-1	" 8 "	good.
03 56 W	26 41	0	8.75	K2	1-1-1	" 2 " Fine down Terms.	good
02 3 W	17 44	0	8.2	F7	1-1-1	" 8 Std. vel. Shook!!!	Tr
01 1 W	10 42	0-1	9,5	K0	1-1-1	" 2 Ho Star. 0450 Th (cast wind)	clouds
					4/3	" 8	and Excellent

RH +8

H M

	MC	SC	HW	STW	S	SE	HE
April 9	+12.6	+19.9	−19.5	−1.m	+19.4	−13.8	+13.2

Sat Apr 10 - 130 inches, lecture on Venus, Jupiter + saturn, cloudy - Ho, Bk.

375 Date Sunday April 11-12/54 Observer L-H S Julian Day 2434844
021 29 348 3528 6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21211	HD. 90443	10 21.4	25 26	I-12½	E-103a0	5 set .006	+11.8	20 27	21 12	2	0118
21212	" 92824	10 38.0	26 17	"	"	"	11.8	21 15	22 35	2	2
21213	" 96188	10 54.4	25 50	"	"	"	11.7	22 28	23 44	3	1 4
21214	" 95978	10 52.2	26 44	"	"	"	11.6	23 47	01 07	3	
21215	+51°1664	11 20.6	50 55	"	"	.016	11.3	01 17	03 15	4	3 11 4
	Exp. Test (F/8.					11					

Dome Temp. +45°F
Focus 12.933
Dome Temp.

Transparency Conditions

Start delayed, relays on shutter opening gave trouble.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 11 E	25 11	0	3.13	K0	e-2-2	Set 2 A.G. 25	good
0 55 W	26 00	0-1	8.96	G0	e-2-2	" 3 " "	good
1 45 W	25 31	0-1	8.75	G5	2-2-2	Set 2 " "	fair
0 5 1 W	27 21	0-1	8.34	K0	2-2-2	" 3 " " 0035 A.G. 1 P.H. +	fair
0 45 1 W	30 38	0	10.0	(G0)	1-1-1	" 2 NR Hi.Vel. 0251 windy.	weak
					4/3	" 8 0313 Very Windy Heavy Cloud from N Star Gone!	to weak
						3 P.H. + H. Hor. M.	
						Ap. 12 MC +1.6 SC +13.1 MTW +7.8 STW +.3 S +11.1 SW -18.9 ME +4.2	

377

Date Monday April 12-13/54 Observer MR - HV Julian Day 2434845

0 22 28 23.4 3 52 6.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
						Set				
21216	HD 49500	06h 43.6m	+25° 36′	I-12½	103a-0	.016	+7.0C	19:30	20:24	1
21217	HD 44496	06 17.0	+17 37	"	Hi Speed	"	"	20:27	20:37	4
21218	HD 68461	08 07.4	+16 49	"	103a-0	"	+6.9	20:48	21:06	1
21219	BD +25° 1981	08 38.5	+25 10	"	"	"	6.9	21:09	22:26	2
21220	HD 97916	11 10.7	+2 06	"	"	"	+6.8	22:34	00:34	2
21221	ξ UMa B.	11 12.9	32 06	"	"	"	6.8	00 41	00 51	3
21222	HD 99967	11 25.3	47 12	"	"	"	6.9	0056	01 46	"
21223	" 148897	16 26.2	20 42	"	"	.008	6.9	0158	02 27	1
21224	ε UMin.	16 56.2	82 12	"	"	"	7.0	0246	03 36	1
21225	ζ 2873 B	22 01.9	82 23	"	"	"	7.0	0319	04 15	0

O.K.B.

This is the corrected #.

Dome Temp. 41°F
Focus 12.933
Dome Temp. 40°F

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+2:42	+25° 33′	2	8.51	K2	1-1-1	HD-AG-M... Set 2	
+3:22	+17 36	0	6.8	A0	2-2-2	Cluster Prog. Set 2	good
+2:01	+16 39	1	6.9	K0	1-1-1	HD. Set 8	
+2:49	+25 00	1	9.6	F0	1-1-1	RD H.V Set 2	
02 =W	+ 2 21	1-0	9.6	F5	1-1-1	" Set 8	
02 44W	31 47	0	5.7	G0	1-1-1	HD Star " 2	
03 24W	46 55	0	7.5	K0	1-1-1	" " " 8	
01 00E	20 35	0	6.1	G5	2-2-2	" " " 2	
00 47E	82 06	0	5.2	G5	2-2-2	" " " 5	
04 09E	82 38	0	8.2	G5	2-2-2	" " " 2 North Foll.. BOTH * Same mag visual	
					5/6	" 8	
						0405 Very Windy.	
						0430 A few clouds.	
						P.H. #1 & 3 E103 x 0 +12	
						" #4 Hi speed + About full box	
						Hm M.	

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Date Wed Apr 14 15 Observer Ho Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I	Hour Angle End
~~2/2/15~~ Discarded.	NO #134	05 34	+15 24	12	IIIa-J	2at .002	+13.4	19 48	20 28	4	3.98W

Dome Temp. +48

Focus

Dome Temp. +45

Transparency Conditions Poor - Some Cloud

380

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
20 2[illegible]	03 38W	+15 28	00	7.6	A2	4-4-4	Set 2. Mag Cl. Note - Before ! Set. 1st [illegible] from King in Sept 24 it Practically Nothing. Clouded in at 20 00. Pt Hydr. 20 10 PH #1+3 E10320 +12 #4 Hi Speed + Atmost Full Box Ht on M.	

	MC	SC	MNC	STC	S	SW	MES
Sept. 19	+18.0 s	+21.0 s	-28.8 s	-.5 m	+29.0 s	+4.5 s	+8.2
21	+17.8	+19.0	+17 s	0 m	+17.2 s	-9.0 s	+4.3

381

Date Wed-Thurs. April 21-22, 1954 Observer O Julian Day 2434854.

O 31 16 08.1 3508.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle End
						Set					
21226	HD 86986	9 57.1	+15 02	I·12	E103a-O	.016	+14.6	20 51	21 37	3	03 W
21227	+51° 1664	10 20.6	+50 55	"	"	"		21 37	22 12	3	1

Dome Temp. +53° F

Focus 12.933

Dome Temp. +

Transparency Conditions Hazy, mostly low

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
08 W	+14 46	0	8.1	A1	1-1-1	Set 2. - Guide.	good
30-W	+50 58	1	10	G0	1-1-1	" 8 " - 23°0 Very foggy, two weak ends.	

1 ph. loaded 12a-0 · +12

1 ph, F4, hi speed.

Ht on Mirror.

	MC	SC	HTW	STW	S	SW	ME
Apr. 23	+18.3	+21.6	-12.9	+.5.0	+18.6	-8.5	0

Date Fri-Sat Apr. 23-4, 1954 Observer Ho — Hv Julian Day 2434856.

⊙ 13 04.2 2105.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.	Hour Angle Ind
21228	HD 30353	04 41.8	+43 06	I 12	E103a0	Slit 0.008	+11.9	19 57	21 09	1	
21229	HD 74721	08 40.4	+13 38	"	"	Slit 0.016	+11.8	21 20	22 36	2	
21230	HD 99967	11 25.0	+47 12	"	"	"	+11.7	23 10	00 10	2	
21231	HD 148899	16 26.2	+20 42	"	"	"	11.8	00 19	01 05	2	
21232	HD 166208	18 04.5	+43 27	"	"	"	11.8	01 16	0 56	1	
21233	o Drac.	18 49.7	59 19	"	"	"	12.0	02 09	03 47	1	
21234	HD 170474	18 24.5	−02 03	"	"	"	12.0	03 04	04 04	1	
	Test	Test			OTB.						

Dome Temp. 150°F
Focus 12933
Dome Temp. 39°F

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
06 06W	+43 13	00	8.3	G0p	2-2-2	Biddelmann's star - Late start due to ± δ being rather W)	good
03 46W	+13 26	00	8.7?	B1	1-1-1	Set 2 High Velocity Star (Eastern) - Wanted Strong	fair
02 3 N	+116 25	0	7.5	K0	1-1-1	Set 8 Ho Binary	poor
0135 E	20 35	00	6.1	G5	1-1-1	Set 2 " "	poor
0231 E	43 28	00	5.9	G5	1-1-1	Set 8 " "	poor
0212 E	59 19	0	5.8	K0	1-1-1	" 2 " " (H & K emis.)	fair
0014 E	-02 01	00	6.5	G8	1-1-1	" 8 " " 0400 Haze + few Clouds.	poor
					4/3	" 5	

P.H. # 2 E 1031-0 + 8?
" # 1 Hispeed +?
Hon M.

385 → Over-develope this plate!
→ And this one.

Date Sun: Mon Apr 25-6, 1954 Observer Ha – Hv Julian Day 2434858.

0h 09 37s 22h 26

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21235	HD 41344	05 59.5	+15 28	I 12	High Spd.	1st .008	+14.1	20 01	20 55	4	04 53W
21236	Σ 1561 B	11 33.5	+43 40	"	E103a0	2nd .016	+14.0	21 08	23 48	2	02 07W
21237	+16°3752	19 03.5	+16 43	"	"	1st	+14.1	23 58	01 45	"	01 51W
	Focus Test				O.A.						

Dome Temp. 2.5
Focus...
Dome Temp.

Dome Temp. +51°F

Focus.....

Dome Temp.....

Aurora

Transparency Conditions Poor at the beginning - some cloud trouble opening shutters, - rotating dome didn't help, - finally whacked away at the contact which need cleaning off the think. 386

Ending Time E.S.T.	P.H.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
		1H 50W	+15 29	00	7.6	A2	4-4-4	Mrg. Cluster - This cluster is getting very far W. Seeing 00	
		02 07W	+45 23	0 to 1	9.7	K5	1-1-1	Set 2 - Ho binary - some cloud & all times	
		0324E	+16 48	0-1	6.8	G5	1-1-1	Set 8 - " " " Wanted very strong	
							4/3	" 5 " " " 0110 Haze & Clouds. 0150 More Cloud.	

P.H. # 143 E 1-3s-0 +6

" #4 Hi Speed.

	HC	SC	HW	STW	S	SW	HE
Ep. 28	+20.0	+45.2 S	-5.8 S	+.1 W	+45.0 S	+18.0 S	-4.2 S

Date Wed-Thurs, April 28-29, 1954 Observer O-H Julian Day 2434861

δ 38 04 57.1 3498.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
21238	HD 100363	11 27.8	-11 29	1.12	E103a-O	Set .016	+11.2	20 07	21 47	3
21239	+51° 1664	11 20.6	+50 55	"	"	"	+11.2	21 56	01 56	3
21240	α Cap.	20 12.5	-12 51	"	"	"	11.2	02 17	02 57	1
21241	B 5900	22 15.2	+16 19	"	"	"	11.1	03 16	04 26	1

Last Set O.G.

Dome Temp. 48° F

Focus 12.933

Dome Temp. 42° F

Transparency Conditions Clear Cirrus low in west

388

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 25 W	−11 47	1	100	A2	1-1-1	Set 2 Hi Vel. Backs brighter than 10	fair
0441 W	+50 38	2*	10.	G0	1-1-1	" 8 " " Seeing variable 0-1-2	fair
0310 E	−12 39	1+	5.6	G5	1-1-1	" 2 Ho Prog.	wintry
0415 E	+16 37	0-1	6.7	K1	1-1-1	" 8 " " 0400 Very Wet Outside Fossy Dark	wintry
					4/3	" 5	

P.H. # 2 & 3 E 103 = 0 +1

" # 4 Hi Speed = ?

Date Thu-Fri Apr 29-30, 1954 Observer MR – Hv Julian Day 2434862

39 03 15-1 34964

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21242	BD+51°1664	11 20.6	+50 55	I-12	103a-O	set .016	+13.4	21 : 52	02 22	2	0[illegible]
21243	B 6129	23 47.5	+74 59	"	"	"	13.4	02 47.	04 21	1	05.[illegible]

Dome Temp.
Focus
Dome Temp.

Dome Temp. +51°F
Focus 12.933
Dome Temp. 47°F

Transparency Conditions good after 10:30 EDST
clouds earlier

Faint Aurora ~ to ~ midnight.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
05 11 W	+50 39	0+	10:	G0	1-1-1	RotHiVel Set 2	good
05 16 E	+75 17	0	7.9	K5	1-1-1	Holog " " K x K	
					4/3	" 5	a/t visibl.
						P.H. #3 E 103 - 0 + 4	
						" #4 H. Speed	
						H - M	

	HC	SC	LITW	Spec	S	S W	HE
Ap. 30	+20.8 s	+46.9 s	−10.0 s	+.1 m	+44.4 s	+20.2 s	+.1 s

391

Date Sat May 1-2, 1954 Observer Hd – HL Julian Day 24348.64

0 40 59 46.3 3493.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
21244	HD99967	11 25.0	47 12	1-12	Σ103aO	016	20.2	21 46.	23 46.	3
21245	HD128296	14 31.0	11 30	1-12	Hyfied	008	20.2	23 54.	00 18	4
21246	HD127740	14 28.0	14 31	1-12	"	"	20.1	00 24	00 54	4
21247	HD135485	15 10.2	-14 19	1-12	"	"	20.1	01 02	01 32	1
21248	" 179881	16 32.4	+14 40	"	"	"	20.1	01 39	02 05	1
21249	" 175514	18 50.4	+09 13	"	E103aO	"	20.1	02 13	03 [illegible]	2

Dome Temp.
Focus 12
Dome Temp.

Hour Angle End

Dome Temp.....
Focus 12.9345
Dome Temp. 62° F

Transparency Conditions .....

60 visitors. Have lecture on Milky Way. Cleared later; showed ♂ & ♃ with 24". 4" developed up.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 2 38	46 57	2	8.0	K0	1, 1, 1	set 2. No Primary wanted v.v. strong	v str.
W 05m	11 16	1	7.52	A3	4-4-4	Set 2. Supp list zone 82	wk
W 43m	14 15	1	7.46	F5-	4-4-4	" 8 " " " " "	l wk
00 40 W	-14 30	1	7.9	<B5	4-4-4	" 2 Matthews Hilel	Too wk
00 07 E	+14 34	1	7.2	B0.5II	4-4-4	" 8 "	Good
01 25 E	+09 16	1	8.9	06	2-4	" 2 " "	Too wk
					8/6	" 8	centers To m.

0230 Foggy, Very Wet both inside + out.

0238 Cloud + Haze from N. Very Quickly!

0300 Wind Rising. Sky Clear

	Mc	SC	HTW	STW	S	SW	HE
May 3	+21.2 s	+38.9 s	-46.2 s	-.4 m	+36.5 s	+9.9 s	-3.8 s

Pth. #1 Error -0 + 2
" -4 Hr. Sq. end.
Hour M.

May 5	+21.3 s	+50.0 s	-8.3 s	0 m	+47.6 s	-28.8 s	-1 s

Date Luna – Int 1 May 6/7, 1957 Observer RE – H V Julian Day 2434869

0 45 50 33.9 3484.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21250	+58° 1199	09 29.5	+58° 21'	I-10½	E103-a-O	rel .016	8.0	21 29	23 37	1	
21251	+0.03 5425	15 10.2	-14 19	"	"	.008	8.0	23 51	01 11	1	
21252	" 175514	18 50.6	+09 13	"	"	"	7.4	01 26	03 24	2	
	Fine Dot		2 D.P.								

Dome Temp.
Focus
Dome Temp.

Dome Temp. +40°F

Transparency Conditions Cleared after 20h.

Focus

Dome Temp. 37

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11 12W	-8 06	0	(9.7)	60	1-1-1	set 2 Hi-vel. prog. Trouble with heat control from last exposure	weak
00 38W	-14 31	0	7.4	25	2-2-2	8 Hotbeam prog.	weak
00 49E	+09 16	0	8.9	06	2-2-2	" 2 " " 0210 Some Cloud.	two weak
					f/6.	" 8 " 0238 More Cloud + Haze	
						0320 More Cloud.	one weak

P.H. #3 E1030 Photo Mount

#4 H. Spect.

Hom. M.

Sat. 1954 May 8

Broken thin cloud. Shower [telescope] aids to the sitting

about 200 meteors N, L

Showed 2 with 4-in at [illegible]

Hi wind: could not get the [illegible] open — OK

395

Date SUN-MON MAY 9-10/54 Observer MR - HS Julian Day 2434872

⊙ 48 44 40.1 3478.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
21253	HD 116634	13h 49.8	+32° 37′	I-12½	Hi-Sp.	set .008	+10.9°	23:23	00:15	4
21254	HD 128296	14 31.0	+11 30	"	"	"	+10.6	00:21	01 45	"

Dome Temp. 44°

Focus 12.933

Dome Temp. 42° F

Transparency Conditions rain, clds → clearing 22h

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
+1:45	+32° 20′	0	7.55	A2	4-4-4	Set 2 KASalp/57	good
0h 04E	+11 17	0	7.52	A3	4-4-4	~~Set 8~~ KASalp/82 0158 Clouds,	good
						1 P.H. E 103a-0 ~~plates Needed~~.	
						Hon M.	
						Focus Check 12.933, 12.913, 12.923	
						Focus Reset at 12.923	

	HC	SC	HTiO	STiO	S	SW	HE
May 10	+21.1 s	+51.1 s	+12.3 s	+.5 m	+49.0 s	+24 s	-2.8 s
12	+21.5 s	+51.2 s	-17.0 s	.0 m	+51.2 s	+31 s	-3.4 s

Date Wed-Thurs May 12-13, 1954 Observer O-Hr Julian Day 2434875.
0 51 38 21.6 3472.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
21255	+58° 1199	9 29.5	+58 21	I 12	E103a-O	set .016	+12.1 12.6	20 30	23 18	3
21256	HD114762	13 07 5	+18 02	"	"	"	+13.3	23 36	23 44	3
21257	HD125709	14 16 1	+27 01	"	hi speed	set .008	13.4	23 50	00 20	4
21258	" 138085	15 24.7	16 44	"	"	"	13.3	00 36	01 10	"
	Focus	Test			O/B.					

Dome Temp
Focus
Dome Temp

Hour Angle End

Dome Temp. 7.5 c° F

Focus 1.2-92.3

Dome Temp. 47.0°

Transparency Conditions Cleaning up current.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 48W	+58 08	0	9.7	G0	1-1-1	El 2 hi Velocity } Spectrograph heater thermoflows	
1 37W	+17 44	1	8.2	F7	1-?-1	· 8 St Vel. not working well. " "	
0105W	26 47	1-2	7.46	A2	4-4-4	" 2 KA Sup. 58 Temp. increasing. good	
0047W	16 32	1	7.55	K0	4-4-4	" 8 " " 23' Plate in backwards!! fair	
					16/0	" 5 0110 Clouds from S + NW 1/2 hr. lapsed	
						0150 Wedge	

3 P.H. load-1 E 1:3-40 +8

Ni Spools ½ box +

Hen M.

Date Thurs Fri, May 13-14, 1954 Observer Ho – Hr Julian Day 2434876.5
0 52 36 22.5 3471.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H	Hour Angle End
21259	+42°2135	11h 33.9m	+42° 52'	I 12	F103aO	Set .016	+16.9°	20 17	23 47	2	0: 18W
21260	HD 175514	18 50.6	+09 13	"	"	11	17.0	23 55	01 55	3	01 49E
21261	AG. 12426	21 18.3	+30 15	"	"	.008	17.0	02 07	03 51	1)	0.21E
	Focus	Set			O.T.B.						

Dome Temp. +59° F

Transparency Conditions Fair

Focus ——

Dome Temp. 50° F

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23 47	03 18W	+42 35	0	9.6	K5	1-1-1	Ho Bin (Temp C. working WELL)	fair
01 55	01 49E	+09 16	0-1	8.9	06	1-1-1	Matt. Prog. Set. 2	fair
03 51	02 21E	+30 30	1-2	8.91	K0	2-2-2	A.G. 25 II 8 0235 Seeing 9! quieting!	good
						8/6	II 5	

1 PH E 103.0 + 8

Hon M.

	MC	SC	MTW	STW	S	SW	ME
May 14	+21.6^s	+57.1^s	-53.4^s	-0.8^m	+52.9^s	+19^s	+0.2^s

401

Date Fri-Sat, May 14/15, 1954 Observer BK — HV Julian Day 2434877

⊙ 53 34 13·8 3469-7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.	Hour Angle End
21262	BD +12° 2442	12 03·9	+12 21	I 12½	E103a-O	set .016	19.0	20 30	23 50	4	
21263	HD 122109	14 57·6	+56 01	"	Hi Speed	set .018	19.8	23 59	00 35	5	
21264	HD 124646	15 05·9	+62 30	"	"	"	20.0	00 42	01 08	"	
21265	~~BD +34° 3872~~ ~~" 227704~~	~~20 02.4~~ ~~20 02.7~~	~~+35 03~~ ~~34 38~~	"	E103a-O	"	20.0	01 37	03 57	1	
	Focus Test			.7	B.						

Dome Temp. 60°

Transparency Conditions Fair

Focus

Dome Temp. 53°

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 55 W	22 02	0	10·2	(G0)	1-1-1	set 2 No fi-value progr. Seeing variable 0-2	fine
0048 W	55 49	1	7·40	F0	2-4-4	2 KA Sep. 15"	wtsy
0112 W	63 16	0-2	7·09	F=	4-4-4	" 8 " " "	wtsy
0055 E	35 12	2·3	~~7·4~~	~~Bo~~	2-2-2	" 2 ~~Mt#~~ * 0220 Haze+Cld.	good
					8/6	" 8	untr b wklt
						1 PH + 6 Em30	
						Hm M.	

403

Date..... Observer..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.